

CURRICULUM VITAE
HAYDEE MARIA CUEVAS

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EDUCATION

- Doctor of Philosophy, Applied Experimental & Human Factors Psychology, 12/2004
University of Central Florida (UCF), Orlando, FL
- Bachelor of Arts (Summa Cum Laude), Psychology, 12/1997
University of Central Florida (UCF), Orlando, FL
- Associate in Arts (Highest Honors), Education, 6/1995
Miami Dade Community College (MDCC), Miami, FL
- Graduate Certificate of Completion, Project Management, 3/2014
Embry-Riddle Aeronautical University (ERAU), Daytona Beach, FL
- Yellow Belt Certification, Lean Six Sigma, 4/2018
Embry-Riddle Aeronautical University (ERAU), Daytona Beach, FL

ADDITIONAL

- Knowledgeable in Microsoft Office, SPSS, Microsoft Project, QM for Windows, Microsoft Windows, Canvas LMS; web conferencing tools (MS Teams, Zoom).
- Fluent in Spanish, both oral and written.

RESEARCH EXPERIENCE

Twenty-five years of experience (7+ years in industry) as a human factors researcher investigating a broad range of human performance issues in complex operational environments. Worked on numerous projects funded by organizations in the Department of Defense (Air Force Office of Scientific Research, Air Force Research Laboratory, Army Research Laboratory, Office of Naval Research, Office of the Secretary of Defense); government (Federal Aviation Administration, National Aeronautics and Space Administration, National Science Foundation); and industry (commercial aviation, power transmission and distribution, oil pipeline operations, emergency medical teams).

Principal Investigator, Human Factors Training for FAA Aviation Safety Specialists within Aircraft Certification and Flight Standards. Funded under the FAA Center of Excellence on Technical Training and Human Performance (10/2021-present). The objective of this project is to design, develop, and evaluate a learner-centered training program to enhance the human factors knowledge of FAA Aviation Safety specialists with roles in Aircraft Certification and Flight Standards Services.

Principal Investigator, FAA Air Traffic Organization (ATO) technical training culture change. Funded under the FAA Center of Excellence on Technical Training and Human Performance (06/01/2021-08/30/2021). The objective of this project was to develop a working draft of a

detailed training culture change management plan (TCCMP) based on established best practices, tailored to the specific needs of the FAA ATO. The goal is to facilitate the adoption and implementation of new policies, procedures, and practices to support the implementation of air traffic control (ATC) training performance standards.

Principal Investigator, Situation awareness (SA) error analysis of aviation incidents (12/2020-12/2021). The objective of this study was to apply the SA Error Taxonomy, developed by Endsley (1995), to analyze SA errors in voluntary incident reports recorded in NASA's Aviation Safety Reporting System (ASRS) from 2009 through 2019. This in-depth analysis aims to reveal the types of SA errors committed most frequently by operators, classified in terms of SA level.

Principal Investigator, Experimental, Quantitative, and Qualitative Underrepresentation Analysis of Aviation Labor-force (EQQUAAL) (7/2020-12/2021). The mission of EQQUAAL is to create safe, just, and inclusive work environments open to all individuals by restructuring organizational and operational systems in the aviation industry. Research questions investigated include:

- What strategies can help break down the barriers to recruitment and retention of men and women of color in aviation?
- How can colleges and universities increase the representation of women of color in faculty, particularly at higher ranks?

Future research will address the issues faced by other groups (e.g., religion, gender identity or expression, sexual orientation, national origin, genetics, disability, age, or veteran status).

Principal Investigator, Metacognitive situation awareness in aviation (3/2020-9/2020). The objective of this study was to garner a better understanding of metacognitive situation awareness in the aviation domain. To achieve this objective, subject matter experts in commercial aviation, air traffic control, and aviation maintenance were asked to identify the knowledge, skills, and strategies necessary to support the three components of metacognitive situation awareness (monitor, evaluate, and regulate).

Principal Investigator, Event-based approach to training for improving aircrew go-around safety. (7/2019-6/2020). Funded under the FAA 692M15-18-R-29737 BAA for Improving Go-around Safety. The objective this project was to design and develop training programs aimed at improving crew performance that could be standardized and made applicable to all Part 121 operators, compatible with their unique aircraft types and company SOPs.

Principal Investigator, Gender diversity in the aviation workplace (7/2019-6/2020). The objective of this research project was to determine how women compare to men in aviation occupations and what factors contribute to the retention of women in aviation occupations. Also examined racial diversity in aviation occupations and other specialized training professions.

Principal Investigator, Development of a skill taxonomy (3/2017-6/2020). The objective of this project was to develop a taxonomy of characteristics for defining the construct 'skill,' drawing from the various definitions described in the extant literature and input from subject matter experts within the context of (1) military aviation airborne refueling, (2) aviation maintenance skills for unmanned aircraft systems, and (3) skills required by pilots in commercial aviation.

Principal Investigator, Aviation maintenance decision making (1/2016-3/2019). Research conducted under a Memorandum of Understanding with an international commercial airline. The objectives of this project were to:

- Identify factors hindering a strong safety culture among aviation maintenance technicians who often deal with high workload, time pressure, and fatigue.

- Apply findings to create an interactive workshop to enable technicians to recognize and avoid hazardous attitudes in aviation maintenance.

Principal Investigator, Episodic memory reconstruction for UAV behavior explanation (“EpEx”). Subcontract to Soar Technology, Inc., under project funded by the U.S. Air Force Research Laboratory (9/2016-9/2018). The goal of this two-year project was to investigate methods of shared perception to transparently communicate the pertinent details of autonomous activity in order to contribute to and help calibrate an operator’s trust in UAV autonomy during operations and during after-action reviews.

Principal Investigator, Team cognition in human-automation teams (7/2013-6/2014). The goal of this project was to investigate the essential knowledge, skills, and abilities (KSAs) indicative of successful UAS operator performance. The specific research objectives were to: 1) develop a theoretically-based taxonomy of factors (KSAs) that may influence UAS operator performance; 2) identify valid and reliable measures for assessing a prioritized subset of these factors; and 3) evaluate the predictive validity of these factors with an operationally valid population.

Co-Investigator, Impact of culture on situation awareness (SA) (10/2017-12/2018). The overall goal of this multinational academic-industry project was to examine the impact of culture on the development process and content of SA from a holistic approach focusing on the individual, team, and environment. The specific objective of this study was to empirically evaluate culture-dependent individual difference factors underlying SA levels (perception, comprehension, projection) in a simulated scenario involving a complex domain (aviation).

Co-Investigator, Development of a learning taxonomy and implementation strategies. Funded under the FAA Center of Excellence on Technical Training and Human Performance (9/2016-12/2017). Overall goals were:

- Develop different learning taxonomies that can be evaluated for their use in organizing training, evaluating training quality, and developing new training opportunities.
- Provide recommendations for possible implementation strategies of proposed taxonomy.

Collaborator, FAA Center of Excellence on Technical Training and Human Performance (ERAU lead, PI: Mark Friend) (8/2016-12/2017).

- Led by ERAU, this multi-university industry team unifies the nation’s preeminent authorities in air transportation training and related technologies. The Center serves as the front line of training innovation, working with the FAA to develop solutions that lead to stronger personnel and safer, more efficient air transportation throughout the nation.
- The Center will explore the training and development of all air transportation personnel, including air traffic controllers, aviation safety inspectors, airway transportation system specialists, engineers, pilots and technicians.

Collaborator, Alliance for System Safety of UAS through Research Excellence (ASSURE) FAA UAS Center of Excellence (ERAU POC: Richard Stansbury) (5/2015-3/2016).

- ASSURE’s mission is to provide the FAA with the research it needs to quickly, safely and efficiently integrate unmanned aerial systems (UAS) into the National Airspace System with minimal changes to the current system.
- As a co-founder of ASSURE, Embry-Riddle will be the technical lead in UAS airport ground operations, UAS pilot and crew training and co-lead in command and communication research. Embry-Riddle will also provide research support in the areas of detect-and-avoid,

human factors, air traffic control interoperability, air traffic management, low-altitude operations, wake separation and noise reduction.

Research Associate III, SA Technologies, Inc., Marietta, GA, 12/2004-4/2012

Collaborated on numerous externally-funded projects in the public and private sector including:

- Navy-funded project aimed at designing and developing the *Cognitive Readiness Evaluation and Augmentation Tool for Operational Readiness* (CREATOR), which includes a set of metrics and mobile game applications that can be used to support warfighters and their team leaders in monitoring, evaluating, and augmenting their cognitive readiness.
- Army-funded project aimed at designing and developing the *Cognitive Readiness Trainer* (CR-Trainer), conceptualized as an integrated training and assessment system that can be used to aid in the rapid formation of cognitively ready, highly effective, and cohesive teams.
- Air Force-funded project targeted at developing the *Layered-Sensing Situation Awareness Intuitive Displays* (L-SAID) toolkit to guide the design of display interfaces that optimize situation awareness in Intelligence, Surveillance, and Reconnaissance operations.
- NASA-funded project that utilized a *Crew Autonomy Measures and Models* two-part approach to determine the optimal levels of crew autonomy needed for different missions and/or mission phases during long duration space flight operations.
- Industry-funded project to deliver a situation awareness training workshop to oil pipeline operators along the Alaskan Pipeline.

Research Assistant, Institute for Simulation and Training, University of Central Florida, Orlando, FL, 4/2003-12/2004

Collaborated on a multidisciplinary research project, funded by the National Science Foundation and the Office of the Chairman, Orange County, FL, to develop an innovative curriculum and delivery strategy designed to enhance learning across a variety of domains, including K-12 education and workforce development. Primarily responsible for applying pedagogical principles to the instructional design for the prototype system, *virtual field trips*, designed to provide learners with rich, dynamic, interactive, synthetically-generated experiences to complement their traditional instructional materials. Also assisted with the development of a theoretical framework to guide a multi-year research agenda aimed at exploring the effectiveness of technology-enabled educational systems within synthetic learning environments.

Research Assistant, Design Interactive, Inc., Orlando, FL, 11/2003-5/2004

Collaborated on a SBIR Phase I project, funded by the Naval Surface Warfare Center, aimed at developing a training management system designed to reduce trainer workload and assure training effectiveness. Primarily tasked with generating theoretically-based, empirically-validated training management guidelines for shipboard trainers, and supporting the design and evaluation of performance measurement tools to facilitate shipboard data collection planning.

Research Assistant, Team Performance Laboratory (TPL), University of Central Florida, Orlando, FL, 1/1999-1/2004

Under projects funded by the Office of Naval Research and the Air Force Office of Scientific Research, primarily investigated the use of interactive computer-based training technology, such as enhanced displays, to support the acquisition, development, and transfer of knowledge related to critical linkages in domain knowledge for complex task training environments (e.g., aviation, distributed decision making). Participated in the development of an automated, computer-based training and performance assessment system as well as designed and implemented several empirical studies to evaluate the utility and generalizability of this system within different complex task testbeds. Coordinated and directed the activities of several

undergraduate research assistants to implement various research projects, including conducting literature reviews and experimental studies.

Research Assistant, Florida Alliance for Assistive Services and Technology (FAAST), University of Central Florida, Orlando, FL, 8/1998-12/1998

Under a project sponsored by the Senior Resource Alliance, participated in the development and evaluation of an interactive multimedia software program, designed to improve the functional literacy skills of under-educated older adults, while at the same time providing them with information on health, nutrition, medication management, and safety.

Research Assistant, Space Coast Center for Human Factors Research, Florida Institute of Technology, Melbourne, FL, 1/1998-5/1998

Primarily responsible for developing the experimental design for a NASA-sponsored project, under AGATE (Advanced General Aviation Transport Experiments). Assisted in developing and testing a Flight Training Curricula Work Package, utilizing a Multi-function Flight Display.

Research Assistant – Student Contractor, Aviation Team Training Lab, Naval Air Warfare Center Training Systems Division, Orlando, FL, 5/1996-12/1996

Conducted a detailed analysis of Naval aircraft mishap reports covering a five-year period, as presented by the Naval Safety Center, to determine if a breakdown in aircrew coordination occurred and was a causal factor in the mishap.

Research Assistant, Team Performance Laboratory (TPL), University of Central Florida, Orlando, FL, 5/1996-8/1996

Conducted a detailed analysis of critical incident reports from a 911 emergency response call center, classifying incidents in terms of what crew resource management (CRM) teamwork behaviors (e.g., communication, decision making) were not properly executed by dispatchers.

Research Assistant, Department of Psychology, College of Sciences, University of Central Florida, Orlando, FL, 1/1996-5/1996

Assisted in implementing a study to investigate the utility of the pegword mnemonic device as a memory aid, as compared to the use of self-devised learning strategies.

Grant / Contract Awards

Extensive proposal preparation experience: submitted (2005-2021): 75; awarded: 22; under review: 1; not selected: 50; solicitation withdrawn: 2. Total external funding (as Principal Investigator or Co-Investigator): ~ \$3,722,198.

1. *Human Factors Training for FAA Aviation Safety Specialists within Aircraft Certification and Flight Standards*. Cuevas, H. M., O'Toole, N. M., Albelo, J. L. D., Martin, S. M., & Fussell, S. G. Proposal submitted to the FAA Aviation Safety (AVS) Human Factors Team under the FAA Center of Excellence on Technical Training and Human Performance (2021, June) (\$93,333).
2. *FAA Air Traffic Organization Technical Training Culture Change*. Cuevas, H. M., Bowyer, S. R., Coyne, W. B., & Lauth, M. R. Proposal submitted to the FAA ATO Safety and Technical Training under the FAA Center of Excellence on Technical Training and Human Performance (2021, June) (\$40,000).
3. *Event-based approach to training for improving aircrew go-around safety*. Cuevas, H. M., Martos, B., Ranaudo, R., & Thomas, R. Contract under FAA 692M15-18-R-29737 BAA for Improving Go-around Safety (Award Year 1 \$395,115) (2019, July).

4. *Gender diversity in the aviation workplace*. Cuevas, H. M. 2019-2020 ERAU Faculty Innovative Research in Science and Technology (FIRST) Program – Category-B proposal (Award \$12,498) (2019, July).
5. *Team metacognition in human-automation teams*. Cuevas, H. M. & Brooks, J. R. Research conducted for SF.04.17.B0001 / SF.04.17.B0007 Human-Machine Teaming program (USAF Academy) under the 2018 U.S. Air Force Summer Faculty Fellowship Program. (2018, June). (Award value \$20,550).
6. *Team metacognition in human-automation teams*. Cuevas, H. M. Proposal submitted to the SF.15.18.B0002 Review and Synthesis of Human-Machine Teaming Research program (WPAFB) under the 2018 U.S. Air Force Summer Faculty Fellowship Program. (2018, June). *Selected – Combined with above program*.
7. *Awareness brief to maintain pilot attention*. Rice, S. & Cuevas, H. M. FY17 ERAU Faculty Internal Research Grant Program – Category A proposal (\$23,874) (2017, July).
8. *Development of a learning taxonomy and implementation strategies*. Mullins, K. (ERAU PI), Kajfez, R. (OSU PI), Cuevas, H. M., Verleger, M., Kecskemeti, K., & Young, S. Contract under FAA Center of Excellence for Technical Training and Human Performance AJI-2 COE TTHP (Award \$60,000) (2016, September).
9. *Episodic memory reconstruction for UAV behavior explanation (“EpEx”)* Cuevas, H. M. Subcontract to Soar Technology, Inc., for the Air Force Research Laboratory under BAA RQKHB-2015-003: Human Performance Sensing Biomarker / Metric Identification & Sensor Development Program (2016, April) (Subcontract Award: \$160,528).
10. *Team cognition in human-automation teams*. Cuevas, H. M. FY14 ERAU Faculty Internal Research Grant Program (2013, February) (Award \$10,994).
11. FAA Task E Demonstration, under funding from the Florida NextGen Test Bed (FAA). Period of performance August 2012 – December 2012. (6% split funding).
12. *Cognitive Readiness Evaluation and Augmentation Tool for Operational Readiness (CREATOR)*. Bolstad, C. A., Costello, A. M., Cuevas, H. M., & Jones, R. E. T. OSD SBIR Phase II Contract Topic OSD10-CR8 Decision Support: Cognitive Readiness Assessment and Reporting (2012, February) (Award \$750,000).
13. *Improving team cognitive readiness through the Multi-Agent System for Targeting Team Mental Models (MAST-TMM)*. Strater, L., Bolstad, C. A., Jones, R. E. T., Cuevas, H. M., McDonald, S. & Santillan, J. OSD SBIR Phase II Contract Topic OSD10-CR7 Improving Team Readiness through the Convergence of Team Mental Models (2012, February) (Award \$750,000).
14. *Cognitive Readiness Evaluation and Augmentation Tool for Operational Readiness (CREATOR)*. Bolstad, C. A., Cuevas, H. M., & Costello, A. M. OSD SBIR Phase I Contract Topic OSD10-CR8 Decision Support: Cognitive Readiness Assessment and Reporting (2010, June) (Award \$100,000).
15. *Cognitive Readiness Trainer (CR-Trainer) for promoting team effectiveness*. Cuevas, H. M., Bolstad, C. A., & Costello, A. M. OSD SBIR Phase I Contract Topic OSD10-CR4 Training Battery for the Rapid Formation of Cognitively Ready, Effective Teams (2010, June) (Award \$100,000).
16. *Layered-Sensing Situation Awareness Intuitive Displays (L-SAID)*. Bolstad, C. A. & Cuevas, H. M. Air Force SBIR Phase I Contract Topic AF093-031 Intuitive Interfaces for "Layered Sensing" (2009, September) (Award \$100,000).
17. *Situation awareness assessment tools for network enabled command and control field evaluations*. Bolstad, C. A., Riley, J. M., & Cuevas, H. M. Army SBIR Phase II Contract Topic A08-058 (2009, October) (Award \$730,000).
18. *Crew Autonomy Measures and Models (Camm)*. Riley, J. M., Cuevas, H. M., & Santillan, J. NASA SBIR Phase I Contract Topic X12.01 Crew Autonomy Assessment for Exploration (2009, September) (Award \$100,000).

19. *Situation awareness assessment tools for network enabled command and control field evaluations.* Bolstad, C. A. & Cuevas, H. M. Army SBIR Phase I Contract Topic 08-058 (2008, June) (Award \$70,000 + \$40,000 option).
20. *Hands-free or limited-manipulation language translation tools for non-linguist soldiers.* Endsley, M. R. & Cuevas, H. M. Subcontract to Global Assessments, LLC. (S. Samman). Army SBIR Phase I Contract Topic A05-029 (2006, May) (Award \$100,000 (\$10,000)).
21. *Exploring the role of team metacognition for improving human-human and human-agent interaction in complex environments.* Cuevas, H. M. & Strater, L. FY06 Research Task for Task Area 2 for the Advanced Decision Architectures Consortium sponsored by the U.S. Army Research Laboratory under the Collaborative Technology Alliance Program, Cooperative Agreement DAAD19-01-2-0009 (2005, October) (Award \$86,000).
22. *Tools for supporting coalition force collaboration across languages.* Ogden, W., Warner, J., & Cuevas, H. M. FY06 Research Task for Task Area 3 for the Advanced Decision Architectures Consortium sponsored by the U.S. Army Research Laboratory under the Collaborative Technology Alliance Program, Cooperative Agreement DAAD19-01-2-0009 (2005, October) (Award \$285,392 (\$73,000)).

WORK EXPERIENCE

Cash Vault Teller, Barnett Technologies, Winter Park, FL, 7/1995-11/1995

Processed large commercial deposits, following strict quality control guidelines; reported any suspicious transactions and counterfeit bills.

Teller, Barnett Bank of Lake County, Eustis, FL, 1/1995-6/1995

Provided efficient and friendly customer service, processing deposits and cashing checks as well as other financial transactions.

Accomplishment: Received 100% ratings on shopper's reports in all categories on two different occasions.

Accounting Clerk, Barnett Technologies Operations Center, Miami Lakes, FL, 6/1991-12/1994

Balanced the general ledger for Certificate of Deposits and Individual Retirement Accounts, resolving exceptions to these accounts to meet deadlines; cross-trained to process payments for safe deposit accounts and complete data entry assignments.

Accomplishment: Received numerous commendations from supervisors on successful completion of research requests; chosen Champion of the Month.

Accounts Payable Clerk, Great Western (formerly CenTrust Savings), Miami, FL, 6/1989-12/1990

Managed the efficient processing of invoices for payment with special attention to detail to ensure proper guidelines were followed; reviewed and balanced reports of the previous day's payments; analyzed and resolved vendor inquiries regarding outstanding invoices.

Accomplishment: Achieved over \$25,000 in refunds for credit balances on accounts.

Assistant Store Manager, E. C. Management Company (McDonald's Corporation), Miami, FL, 7/1985-4/1989

Coordinated the overall direction of crew using good management skills in order to achieve optimum sales, profit, and customer satisfaction; successfully assisted in the hiring and training of a full crew for the opening of a new store; implemented crew training programs for the introduction of new products at the company's three stores.

Accomplishment: Promoted from cashier to Assistant Manager to Interim Store Manager.

TEACHING EXPERIENCE

Teaching Experience

Experience teaching at both the graduate and undergraduate level. Positions include:

Associate Professor with Tenure (4/2018-present), *Assistant Professor* (6/2012-4/2018), School of Graduate Studies, College of Aviation, Embry-Riddle Aeronautical University, Daytona Beach, FL.

Duties include: develop and teach graduate-level courses for the PhD in Aviation, Master of Science in Aeronautics (MSA), and Master of Science in Occupational Safety Management (MSOSM); serve as chair and member of dissertation and thesis committees; conduct research – both internally and externally funded; student advising; service to the University, profession, and local community. PhD courses taught via online technologies: DAV 715 Human Factors in Aviation; DAV 736 User-Centered Design in Aviation; DAV 899 Special Topics in Aviation; Masters courses taught on campus: MSA 691 Graduate Capstone Project; SF 619 Human Factors and Ergonomics.

Invited Guest Lecturer, School of Graduate Studies, College of Aviation, Embry-Riddle Aeronautical University, Daytona Beach, FL

- Guest lecture on “Situation Awareness Fundamentals” to graduate students in MSA 595L / 562 *Situation Awareness in Aviation/Aerospace* (Summer A 2016; Summer A 2017; Summer A 2019; Summer B 2020).

Invited Guest Lecturer, Human Factors & Systems Department, College of Arts & Sciences, Embry-Riddle Aeronautical University, Daytona Beach, FL

- Guest lecture on “Situation Awareness Assessment” to undergraduate students in HF 302 *Human Factors II: Analytic Methods & Techniques* (Spring 2014).
- Guest lecture to graduate students in HF 510 *Research Design and Analysis I* (Fall 2014).

Instructor, Ignite Summer Research Methods Workshop, Embry-Riddle Aeronautical University, Daytona Beach, FL (Summer 2013)

Designed, developed, and delivered a six-week workshop targeted at providing undergraduate students with instruction on fundamental research methods concepts as well as fostering their critical thinking skills. The workshop was open to students from all colleges and thus provided participants with experience in working in multidisciplinary teams.

Graduate Faculty Scholar, College of Graduate Studies, University of Central Florida, Orlando, FL, 8/2009 to 6/2014

Courtesy appointment based on exceptional relevant experience and scholarly or creative productivity, as determined by the graduate program committee. Graduate faculty scholars may serve as outside members of thesis or dissertation committees, where appropriate, for the purpose of bringing specific disciplinary knowledge to the committee, and may teach graduate courses as an Instructor of Record if so certified by the Office of Faculty Affairs.

Guest Instructor, Department of Psychology, College of Sciences, University of Central Florida, Orlando, FL, 1/2010-4/2010; 1/2011-4/2011; 1/2012-4/2012

Invited to co-teach Human Factors II, the second in a three-part series of basic human factors courses involving an in-depth examination of issues. This advanced graduate-level course is designed to promote development of students’ scientific, professional, and academic skills in Human Factors and Ergonomics and its related fields. In addition to attending lectures and

discussing assigned readings, students are required to prepare, over the course of the semester, a manuscript suitable for publication in a professional venue, with guidance and feedback from the instructors.

Invited Guest Lecturer, Department of Psychology, College of Sciences, and Department of Philosophy, College of Arts and Humanities, University of Central Florida, Orlando, FL

- Guest lectures for two undergraduate courses: General Psychology (Fall 2000); Industrial / Organizational Psychology (Spring 2001)
- Guest lectures for four graduate courses: Human Factors Professional Issues Seminar (Summer 2005; Spring 2010; Spring 2012; Spring 2016; Spring 2018; Spring 2020; Spring 2022); Research Methods in Cognitive Science (Spring 2006); Human Performance (Fall 2011; Fall 2012; Fall 2013); Human Factors II (Spring 2013; Spring 2014; Spring 2015; Spring 2016; Spring 2017; Spring 2020; Spring 2021; Spring 2022)

Instructor, Department of Psychology, College of Sciences, University of Central Florida, Orlando, FL, 1/2003-4/2003

Designed and implemented the curriculum for an Advanced Research Methods undergraduate course. The course was constructed to teach students the design, analysis, and interpretation of complex research projects in psychology as well as the proper writing style for scientific research articles. Lessons and activities focused on developing students' critical thinking skills and their ability to integrate and apply the concepts learned in class.

UNIVERSITY SERVICE

Dissertation / Thesis Committees

Served / serving on 30 doctoral dissertation committees and 2 master's thesis committees.

Doctoral Dissertation – Committee Chair

1. C. Braun, Embry-Riddle Aeronautical University (committee chair) (in progress)
Title: *Evaluation of semantic bias in aviation maintenance reports with reference to human error taxonomies*
2. D. Hunter, Embry-Riddle Aeronautical University (committee chair) (in progress)
Title: *Situation awareness assessment of enhanced stabilized approach flight instrument displays*
3. A. Koch, Embry-Riddle Aeronautical University (committee chair) (in progress)
Title: *An investigation into the factors of out-of-school time (OST) STEM programs that influence aviation career selection*
4. R. Stephenson, Embry-Riddle Aeronautical University (committee chair) (in progress)
Title: *Unmanned aircraft systems pilot visual acuity and reaction time utilizing first person view techniques*
5. C. Woodyard, Embry-Riddle Aeronautical University (committee chair) (in progress)
Title: *Understanding human error in airline ramp operations: An explanatory sequential study*
6. D. Hedges, Embry-Riddle Aeronautical University (committee chair: 2019-2021; reassigned) (withdrawn 2022)
Title: *Comparison of lighting manipulations for measuring distance required to identify a closed runway*
7. M. Aguiar, Embry-Riddle Aeronautical University (committee chair; reassigned) (2018-2019)
Title: *Enhancing UAS student learning outcomes using after-action review*
8. N. Bier, Embry-Riddle Aeronautical University (committee chair) (withdrawn 2020)

Title: *Situation awareness levels during shift change in long-endurance unmanned aircraft systems*

9. H. Brewer, Embry-Riddle Aeronautical University (committee chair) (withdrawn 2019)
Title: *Impact of debrief methodology on flight controller performance*
10. G. M. Mellema, Embry-Riddle Aeronautical University (committee chair) (completed 2018)
Title: *Application of Dupont's Dirty Dozen framework to commercial aviation maintenance incidents*
11. E. R. Baker, Embry-Riddle Aeronautical University (committee chair) (completed 2017)
Title: *Airplane energy management situation awareness: Conventional flight display and the OZ concept ecological interface design*

Doctoral Dissertation – Committee Member

1. D. Baghdasarin, Embry-Riddle Aeronautical University (committee member) (in progress)
Title: *Women in aviation maintenance: Factors that motivate work force entry, retention, and promotion*
2. C. Trunkhill, Embry-Riddle Aeronautical University (committee member) (in progress)
Title: *Public acceptance of health screening recommendations, safety risks, and implied liabilities for space tourism participants*
3. S. G. Smith, Embry-Riddle Aeronautical University (committee member) (withdrawn 2021)
Title: *Exploratory study of the effect of portable technology on general aviation weather-related mishaps*
4. D. Carroll, Embry-Riddle Aeronautical University (committee member) (completed 2020)
Title: *Providing individualized interventional pilot training through evaluation of flight operations quality assurance data*
5. J. Edwards, Embry-Riddle Aeronautical University (committee member) (completed 2020)
Title: *Student engagement in aviation MOOCs: Identifying subgroups and their differences*
6. K. Petitt, Embry-Riddle Aeronautical University (committee member) (completed 2019)
Title: *Safety culture, training, understanding, aviation passion: The impact on manual flight and operational performance*
7. J. Hunt, Embry-Riddle Aeronautical University (committee member) (completed 2018)
Title: *Cheap flights across the Atlantic: Impact of low-cost, long-haul flights on passenger preferences*
8. C. Lee, Embry-Riddle Aeronautical University (committee member) (withdrawn 2018)
Title: *An examination of the relationship between logistics supportability analysis and aviation safety*
9. T. Sestak, Embry-Riddle Aeronautical University (committee member) (completed 2017)
Title: *Effect of surface materials and morphology on wingsuit aerodynamics*
10. G. Woo, Embry-Riddle Aeronautical University (committee member) (completed 2017)
Title: *Visual detection of unmanned aircraft by human pilots: A predictive simulation model*
11. K. Kiernan, Embry-Riddle Aeronautical University (committee member) (completed 2016)
Title: *The effect of generation on factors affecting field exits among women in engineering*
12. K. Ostrowski, Embry-Riddle Aeronautical University (committee member) (completed 2016)
Title: *Psychological and physiological health outcomes within USAF remotely piloted aircraft support career fields*
13. D. Jackson, Embry-Riddle Aeronautical University (committee member) (withdrawn 2016)
Title: *Validating the implementation of the angle of attack system in a university aviation program*
14. T. Buaphiban, Embry-Riddle Aeronautical University (committee member) (completed 2015)
Title: *Determination of factors that influence passengers' airline selection: A study of low cost carriers in Thailand*
15. J. H. Cistone, Embry-Riddle Aeronautical University (committee member) (completed 2014)

Title: *Analysis of airport surface deviations using the Human Factors Analysis and Classification System (HFACS)*

16. A. M. Costello, University of Central Florida (committee member) (completed 2014)
Title: *Facilitating information retrieval in social media user interfaces*
17. R. E. Joslin, Embry-Riddle Aeronautical University (committee member) (completed 2013)
Title: *Validation of new technology using legacy metrics: Examination of SURF-IA alerting for runway incursion incidents*
18. J. Wang-Costello, University of Central Florida (committee member) (completed 2011)
Title: *Comprehending synthetic speech: Personal and production influences*
19. L. Milham, University of Central Florida (committee member) (completed 2005)
Title: *Investigating the effects of 3-D spatialized auditory cues on the development of situation awareness for teams*

Master's Thesis

1. K. Arnaldi, Embry-Riddle Aeronautical University (committee member) (11/2012-01/2014; completed 2014)
Title: *The effects of the space environment on human performance*
2. A. M. Costello, University of Central Florida (ad hoc committee member) (completed 2007)
Title: *Developing a spatial interface for information visualization and management in a crisis response scenario*

Graduate Mentoring & Advisement

Provided guidance and support to doctoral students on their dissertations:

1. S. Scielzo, University of Central Florida (completed 2008)
Title: *Multimedia computer-based training and learning: The role of referential connections in supporting cognitive learning outcomes*
2. S. Rehfeld, University of Central Florida (completed 2006)
Title: *The impact of mental transformation training across levels of automation on spatial awareness in human-robot interaction*
3. M. Hilscher, University of Central Florida (completed 2005)
Title: *Performance implications for alternative color-codes in airport x-ray baggage screening*

Directed and guided Human Factors master's student independent study in fulfillment of the requirements for HFS 640 *Aviation Psychology* (Spring 2022).

Provided guidance and support to master's students on their graduate capstone projects:

1. M. N. Alssati, Embry-Riddle Aeronautical University (completed 2021)
Title: *Assessing the impact of using personal electronic devices on general aviation safety*
2. P. Chi, Embry-Riddle Aeronautical University (completed 2021)
Title: *Effects of musical instrument training on multitasking in flight training students*
3. R. Gao, Embry-Riddle Aeronautical University (completed 2021)
Title: *Impact of different iPad sizes on pilot performance*
4. Z. Liu, Embry-Riddle Aeronautical University (completed 2021)
Title: *Measurement of situational awareness in a partial panel cockpit with two different locations of standby instruments*
5. R. Sun, Embry-Riddle Aeronautical University (completed 2021)
Title: *Difference in pilots' approach briefing time using FAA and Jeppesen instrument approach charts*
6. H. Xie, Embry-Riddle Aeronautical University (completed 2021)
Title: *Correlation between personality types and level of success in flight training*

7. L. Fan, Embry-Riddle Aeronautical University (completed 2020)
Title: *The importance of on-ground brief before flight training to enhance student pilots' learning efficiency*
8. M. Kharbouch, Embry-Riddle Aeronautical University (completed 2020)
Title: *The relationship between FAA knowledge exams and practical exams passage rate*
9. S. Naik, Embry-Riddle Aeronautical University (completed 2020)
Title: *Impact of an additional airport terminal on airport operations using TAAM*
10. C. J. Rand, Embry-Riddle Aeronautical University (completed 2020)
Title: *Dependency of the NTSB finding pilot error on pilot fatalities in aircraft accident investigations*
11. N. O. Wasey, Embry-Riddle Aeronautical University (completed 2020)
Title: *Influence of wildlife hazard management plan implemented on wildlife strikes at large hub airports in the United States*
12. C. Aguilar-Velin, Embry-Riddle Aeronautical University (completed 2019)
Title: *Comparison of commercial aviation events reports in the Americas based on language*
13. S. Choi, Embry-Riddle Aeronautical University (completed 2019)
Title: *The impact of airport configurations using TAAM*
14. M. B. Gupta, Embry-Riddle Aeronautical University (completed 2019)
Title: *Analyzing passengers perspective concerning safety in fully automated flights*
15. Z. Huang, Embry-Riddle Aeronautical University (completed 2019)
Title: *Factors influencing passenger's choice of check-in behavior*
16. Y. Li, Embry-Riddle Aeronautical University (completed 2019)
Title: *Different types of checklist usage in private pilot training*
17. S. D. Miller, Embry-Riddle Aeronautical University (completed 2019)
Title: *Flight students' awareness and understanding of fatigue program*
18. S. Alswat, Embry-Riddle Aeronautical University (completed 2018)
Title: *Assessing communication and situation awareness in medevac operations*
19. V. Dharmar, Embry-Riddle Aeronautical University (completed 2018)
Title: *Evaluation of data comm for NextGen air traffic control system*
20. E. Dzamafe, Embry-Riddle Aeronautical University (completed 2018)
Title: *Application of unmanned aircraft systems in precision agriculture*
21. S. Holmes, Embry-Riddle Aeronautical University (completed 2018)
Title: *UAS display alert study*
22. M. Omar, Embry-Riddle Aeronautical University (completed 2018)
Title: *The effectiveness of computer based training for training aviation ground instructors at Embry-Riddle Aeronautical University*
23. C. Piccone, Embry-Riddle Aeronautical University (completed 2018)
Title: *Unmanned aerial systems maintenance knowledge, skills, and abilities needed in technician training*

Undergraduate Mentoring & Advisement

- Faculty Mentor, ERAU Fall Student Research Symposium presentation
Kirkpatrick, K. S. & Cuevas, H. M. (2020). Diversity in aviation academic institutions. Poster presented at the 2020 Fall Student Research Symposium, Embry-Riddle Aeronautical University, Daytona Beach, FL.
- Faculty Mentor, ERAU Fall Student Research Symposium presentation
Rivera, K. K., Kirkpatrick, K. S., Aguiar, M. D., Stevenson, L., & Cuevas, H. M. (accepted). Aviation Occupation Survey. Poster to be presented at the 2020 Fall Student Research Symposium, Embry-Riddle Aeronautical University, Daytona Beach, FL.
- Faculty Mentor, ERAU HFAP Student Conference presentation

Kendrick, K. & Zeigler, Z. (2014, April). Team cognition: Researching the importance of common KSAs in UAS operators. Paper presented at the 2014 Human Factors and Applied Psychology (HFAP) Student Conference, Daytona Beach, FL, 11 April 2014.

- Faculty Mentor, ERAU Ignite Discovery Day presentation
Zeigler, Z. & Kendrick, K. (2014, April). Investigating UAS operator characteristics influencing mission success. Paper presented at the 2nd Annual Discovery Day, Embry-Riddle Aeronautical University, Daytona Beach, FL, 9 April 2014.
- Mentor, Senior Thesis (HU 475), Interdisciplinary Studies
Hamilton, D. J. (2013). *KSAs perceived as essential by UAS operators-in-training*. Undergraduate Senior Thesis, Embry-Riddle Aeronautical University, Daytona Beach, FL.
Note: Chosen as the Outstanding Senior Thesis, Aerospace Studies Program, for 2013.

University Committees

- Member, Faculty Senate Faculty Development and Benefits Committee (2021-2024)
- Member, Student Internal Grant Review Committee (2020-2022)
- Member, Strategic Implementation Team 2 - Mentoring Subcommittee for Diversity & Inclusion (2018-2019)
- Member, Institutional Review Board Committee (2016-2019)
- Member, Faculty Senate (2016-2018)
- Member, Faculty Senate Campus Curriculum Committee (2015-2017)
- Member, Faculty Senate Ad-Hoc Committee (2016). Committee charged with soliciting and capturing concerns among faculty regarding the University Presidential Search.

College / Departmental Committees

- Coordinator, Mentorship Committee, COA School of Graduate Studies (SGS) (2017-present)
- Ad-Hoc Member, PhD in Aviation Qualifying Exam Committee (2016-2020)
- Member, PhD in Aviation Assessment Committee (2013-present)
- Member, SGS Faculty Search Committee (2020-2021)
- Chair (2019-present), Member (2018), PhD in Aviation Residency Poster Evaluation Committee
- Member, SGS Promotion & Tenure Committee (2019-present)
- Member, College of Aviation (COA) Faculty Handbook Review Committee (2018)
- Member, PhD in Aviation Scholarship Committee (2018-2021)
- Member, SGS Logo Design Committee (2017-2018)
- Member, Doctoral Studies Faculty Search Committee (2016-2017)
- Member, PhD in Aviation Rubrics Committee (2015-2016)

Miscellaneous

- Designed, developed, and facilitated a five-week workshop for students on *Gardening As Therapy*, as part of the Winter Wonderland Workshops (December 2020 – January 2021).

PUBLICATIONS [ORCID 0000-0002-5874-7110]**Journals (refereed)**

1. Albelo, J. L. D., Cuevas, H. M., Aguiar, M. D., Piccone, C. J., Petitt, K., & Villanova, R. (in press). Defining aviation 'skills' to ensure effective, safe, and efficient evaluations: A qualitative study. *International Journal of Aviation Research*.
2. Edwards, J. M., Friend, M. A., Cuevas, H. M., Smith, M. O., & Brito, F. (2021). Student engagement in aviation massive open online courses (MOOCs). *International Journal of Aviation Research*, 13 (1), 19-42.
<https://ojs.library.okstate.edu/osu/index.php/IJAR/article/view/8340>
3. Mellema, G. M., Cuevas, H. M., Esser, D., Conway, B., & Frisinger, S. L. (2021). Application of Dupont's Dirty Dozen framework to commercial aviation maintenance incidents. *International Journal of Aviation Research*, 13 (1), 43-62.
<https://ojs.library.okstate.edu/osu/index.php/IJAR/article/view/8264>
4. Stevenson, L., Cuevas, H. M., Rivera, K. K., Kirkpatrick, K. S., Aguiar, M. D., & Albelo, J. L. D. (2021). Women's perceptions of the aviation workplace: An exploratory study. *Collegiate Aviation Review International*, 39(1), 42-63. Retrieved from <https://ojs.library.okstate.edu/osu/index.php/CARI/article/view/8211>
5. Cuevas, H. M. & Neal, J. G. (2018). Informing online doctoral course development using student feedback. *International Journal of Online Graduate Education*, 1 (1). <http://ijoge.org/index.php/IJOGE/article/view/5/2>
6. Cuevas, H. M. & Aguiar, M. D. (2017). Assessing situation awareness in unmanned aircraft systems operations. *International Journal of Aviation, Aeronautics, and Aerospace*, 4 (4). Retrieved from <http://commons.erau.edu/ijaaa/vol4/iss4/3>
7. Cuevas, H. M. & Fiore, S. M. (2014). Enhancing learning outcomes in computer-based training via self-generated elaboration. *Instructional Science*, 42 (6), 839-859. DOI: 10.1007/s11251-014-9315-8.
8. Schmorow, D. D., Bolstad, C. A., May, K. A., & Cuevas, H. M. (2012). Editors' introduction to the special issue on exploring cognitive readiness in complex operational environments: Advances in theory and practice, Part 2. *Journal of Cognitive Engineering and Decision Making*, 6 (4), 355-357.
9. Schmorow, D. D., Bolstad, C. A., May, K. A., & Cuevas, H. M. (2012). Editors' introduction to the special issue on exploring cognitive readiness in complex operational environments: Advances in theory and practice, Part 1. *Journal of Cognitive Engineering and Decision Making*, 6 (3), 271-275.
10. Cuevas, H. M., Bolstad, C. A., Oberbreckling, R., LaVoie, N., Mitchell, D. K., Fielder, J., & Foltz, P. W. (2012). Benefits and challenges of multidisciplinary project teams: "Lessons learned" for researchers and practitioners. *International Test and Evaluation Association (ITEA) Journal*, 33 (1), 58-65.
11. McDermott, P., Riley, J. M., Gillan, D. J., & Cuevas, H. M. (2011). Editors' introduction to the special issue on improving human-robot interaction in complex operational environments: Translating theory into practice, Part 2. *Journal of Cognitive Engineering and Decision Making*, 5 (2), 135-138.
12. McDermott, P., Riley, J. M., Gillan, D. J., & Cuevas, H. M. (2011). Editors' introduction to the special issue on improving human-robot interaction in complex operational environments: Translating theory into practice. *Journal of Cognitive Engineering and Decision Making*, 5 (1), 3-9.
13. Bolstad, C. A. & Cuevas, H. M. (2010). Integrating situation awareness assessment into test and evaluation. *International Test and Evaluation Association (ITEA) Journal*, 31 (2), 240-246. (Special Issue: User-Centric Systems).

14. Saner, L., Bolstad, C. A., Gonzalez, C., & Cuevas, H. M. (2009). Measuring and predicting shared situation awareness in military teams. *Journal of Cognitive Engineering and Decision Making*, 3 (3), 280-308.
15. Caldwell, B. S. Palmer, III, R. C., & Cuevas, H. M. (2008). Information alignment and task coordination in organizations: An 'information clutch' metaphor. *Information Systems Management*, 25 (1), 33-44. (Special Issue: "Collaboration Challenges: Bridging the IT Support Gap").
16. Cuevas, H. M. Fiore, S. M., Caldwell, B. S., & Strater, L. (2007). Augmenting team cognition in human-automation teams performing in complex operational environments. *Aviation, Space, and Environmental Medicine*, 78 (5, Supp Section II), B63-70. (Special Supplement on Operational Applications of Cognitive Performance Enhancement Technologies).
17. Riley, J. M., Endsley, M. R., Bolstad, C. A., & Cuevas, H. M. (2006). Collaborative planning and situation awareness in Army command and control. *Ergonomics*, 49 (12-13), 1139-1153. (Special Issue: Command and Control).
18. Cuevas, H. M., Fiore, S. M., Bowers, C. A., & Salas, E. (2004). Fostering constructive cognitive and metacognitive activity in computer-based complex task training environments. *Computers in Human Behavior*, 20, 225-241. (Special Issue: Human-Computer Interaction).
19. Kring, J. P., Cuevas, H. M., & Goudarzi, S. (2004). Habitat design considerations for mitigating social stressors in long-duration spaceflight. *SAE Transactions – Journal of Aerospace*, 113 (1), 1375-1381.
20. Cuevas, H. M. (2003). Mitigating the negative effects of stress in space flight: A transactional approach. *Journal of Human Performance in Extreme Environments*, 7 (2), 69-77.
21. Fiore, S. M., Salas, E., Cuevas, H. M., & Bowers, C. A. (2003). Distributed coordination space: Toward a theory of distributed team process and performance. *Theoretical Issues in Ergonomics Science*, 4, 340-363.
22. Fiore, S. M., Cuevas, H. M., & Oser, R. L. (2003). A picture is worth a thousand connections: The facilitative effects of diagrams on task performance and mental model development. *Computers in Human Behavior*, 19, 185-199.
23. Cuevas, H. M., Fiore, S. M., & Oser, R. L. (2002). Scaffolding cognitive and metacognitive processes in low verbal ability learners: Use of diagrams in computer-based training environments. *Instructional Science*, 30, 433-464.
24. Fiore, S. M., Cuevas, H. M., Scielzo, S., & Salas, E. (2002). Training individuals for distributed teams: Problem solving assessment for distributed mission research. *Computers in Human Behavior*, 18, 729-744.

Books

1. Cuevas, H. M., Velazquez, J., & Dattel, A. R. (Eds.). (2017). *Human factors in practice: Concepts and applications*. Boca Raton, FL: CRC Press. ISBN 978-1-4724-7515-2.

Book Chapters (refereed)

1. Bolstad, C. A., Endsley, M. R., & Cuevas, H. M. (2014). A theoretically-based approach to cognitive readiness and situation awareness assessment. In H. F. O'Neil, R. S. Perez, & E. L. Baker (Eds.), *Teaching and measuring cognitive readiness* (pp. 161-178). New York, NY: Springer.
2. Jones, R. E. T., Cuevas, H. M., Bolstad, C. A., Anderson, T., Horn, D., & Endsley, M. R. (2014). Disaster management systems. In T. L. Smith-Jackson, M. L. Resnick, & K. T. Johnson (Eds.), *Cultural ergonomics: Theories, methods, and applications* (pp. 163-185). Boca Raton, FL: CRC Press – Taylor & Francis Group.

3. Strater, L., Holbrook, J., Beard, T., Cuevas, H. M., & Endsley, M. R. (2012). An initial investigation of the impact of operator-automation goal divergence in the tower. In S. J. Landry (Ed.), *Advances in human aspects of aviation* (pp. 269-278). CRC Press. <https://doi.org/10.1201/b12321>
4. Bolstad, C. A., Cuevas, H. M., Wang-Costello, J., Endsley, M. R., Page, W. J. & Kass-Hout, T. (2011). Integrating human capabilities into biosurveillance systems: A study of biosurveillance and situation awareness. In T. Kass-Hout, & X. Zhang (Eds.), *Biosurveillance: Methods and case studies* (pp. 79-94). Boca Raton, FL: CRC Press – Taylor & Francis Group.
5. Strater, L., Cuevas, H. M., Scielzo, S., Connors, E. S., Gonzalez, C., Ungvarsky, D. M., & Endsley, M. R. (2011). An investigation of technology-mediated ad hoc team operations: Consideration of components of team situation awareness. In K. L. Mosier & U. M. Fischer (Eds.), *Informed by knowledge: Expert performance in complex situations (Proceedings of the Eighth International Conference on Naturalistic Decision Making)* (pp. 153-168). Boca Raton, FL: Routledge – Taylor & Francis.
6. Bolstad, C. A., Cuevas, H. M., Wang-Costello, J., Endsley, M. R., & Angell, L. S. (2010). Measurement of situation awareness for automobile technologies of the future. In G. L. Rupp (Ed.), *Performance metrics for assessing driver distraction: The quest for improved road safety* (pp. 195-216). Warrendale, PA: SAE International.
7. Bolstad, C. A., Endsley, M. R., Cuevas, H. M. (2010). Team coordination and shared situation awareness in combat identification. In D. H. Andrews, R. Herz, & M. Wolf (Eds.), *Human factors issues in combat identification* (pp. 147-160). Aldershot, England: Ashgate.
8. Scielzo, S., Fiore, S. M., & Cuevas, H. M. (2009). Designing learner-centered multimedia technology. In M. Khosrow-Pour (Ed.), *Encyclopedia of information science and technology*, 2nd ed. (pp. 1059-1064). Hershey, PA: IGI Global.
9. Foltz, P. W., Bolstad, C. A., Cuevas, H. M., Franzke, M., Rosenstein, M., & Costello, A. M. (2008). Measuring situation awareness through automated communication analysis. In M. P. Letsky, N. W. Warner, S. M. Fiore, & C. A. P. Smith (Eds.), *Macro cognition in teams* (pp. 259-275). Aldershot, England: Ashgate.
10. Fiore, S. M., Cuevas, H. M., Schooler, J. W., & Salas, E. (2006). Cognition, teams, and team cognition: Memory actions and memory failures in distributed team environments. In C. A. Bowers, E. Salas & F. Jentsch (Eds.), *Creating high-tech teams: Practical guidance on work performance and technology* (pp. 71-87). Washington, DC: American Psychological Association.
11. Cuevas, H. M., Fiore, S. M., Salas, E., & Bowers, C. A. (2005). Virtual teams as sociotechnical systems. In M. Khosrow-Pour (Ed.), *Encyclopedia of information science and technology, Vol. V* (pp. 3007-3012). Hershey, PA: Idea Group Publishing.
12. Cuevas, H. M., Fiore, S. M., Salas, E., & Bowers, C. A. (2004). Virtual teams as sociotechnical systems. In S. H. Godar & S. P. Ferris (Eds.), *Virtual and collaborative teams: Process, technologies, and practice* (pp. 1-19). Hershey, PA: Idea Group Publishing.
13. Scielzo, S., Fiore, S. M., Cuevas, H. M., & Salas, E. (2004). Diagnosticity of mental models in cognitive and metacognitive processes: Implications for synthetic task environment training. In S. G. Schifflett, L. R. Elliott, E. Salas, & M. D. Covert (Eds.), *Scaled worlds: Development, validation, and applications* (pp. 181-199). Aldershot, UK: Ashgate.

Conference Proceedings (refereed)

1. Cuevas, H. M. & Aguiar, M. D. (2021). Metacognitive situation awareness in aviation [Paper presentation]. *Proceedings of the 2021 International Symposium on Aviation Psychology Virtual Conference*. Oregon State University. <https://doi.org/10.5399/osu/1148>

2. Cuevas, H. M., Mullins, K. J., Summers, B. C., & Hancock, G. M. (2018). Creating amazing leaders. *Proceedings of the 2018 HFES International Annual Meeting* [digital USB]. Santa Monica, CA: Human Factors and Ergonomics Society.
3. Hancock, G., Stowers, K., Bass, E., Cooke, N., Cummings, M., Cuevas, H. M., Gawron, V., & Larsen, N. (2018). Women's leadership in HF/E: Past, present & future. *Proceedings of the 2018 HFES International Annual Meeting* [digital USB]. Santa Monica, CA: Human Factors and Ergonomics Society.
4. Mullins, K. J. & Cuevas, H. M. (2018). Mentors, mentees, and building a board of directors: The big questions in personal and career development through mentorship. *Proceedings of the 2018 HFES International Annual Meeting* [digital USB]. Santa Monica, CA: Human Factors and Ergonomics Society.
5. Cuevas, H. M. (2017). The mentoring game. *Proceedings of the 2017 HFES International Annual Meeting* [digital USB]. Santa Monica, CA: Human Factors and Ergonomics Society.
6. Cuevas, H. M., Kendrick, K. M., Zeigler, Z. A., & Hamilton, D. J. (2015). Investigating UAS operator characteristics influencing mission success. *Proceedings of the 18th International Symposium on Aviation Psychology* [CD-ROM]. Dayton, OH: Wright State University.
7. Cuevas, H. M. (2014). Getting published. *Proceedings of the 2014 Human Factors and Ergonomics Society International Annual Meeting* [CD-ROM]. Santa Monica, CA: Human Factors and Ergonomics Society.
8. Kelling, N., Corso, G. M., Cuevas, H. M., Keebler, J. R., Peres, S. C., & Walker, B. N. (2014). Variance in academia: It is not all R1's out there and even those are not what you think. *Proceedings of the 2014 Human Factors and Ergonomics Society International Annual Meeting* [CD-ROM]. Santa Monica, CA: Human Factors and Ergonomics Society.
9. Cuevas, H. M. & Caldwell, B. S. (2013). Exploring the boundaries of command and control models of distributed team performance in aviation and aerospace operations. *Proceedings of the 17th International Symposium on Aviation Psychology* [CD-ROM]. Dayton, OH: Wright State University.
10. Cuevas, H. M., Zgorski, R. A., Kring, J. P., Caldwell, B. S., Null, C. H., Henwood, B., & Fiore, S. M. (2013). Human factors in commercial human space operations. *Proceedings of the 2013 Human Factors and Ergonomics Society International Annual Meeting* [CD-ROM]. Santa Monica, CA: Human Factors and Ergonomics Society.
11. Kelling, N., Bedwell, W., Corso, G. M., Cuevas, H. M., Keebler, J. R. Peres, S. C., & Walker, B. N. (2013). Life, the universe, and academia: Success in early career academia. *Proceedings of the 2013 Human Factors and Ergonomics Society International Annual Meeting* [CD-ROM]. Santa Monica, CA: Human Factors and Ergonomics Society.
12. Cuevas, H. M. & Schmorow, D. D. (2012). Exploring cognitive readiness in complex operational environments: Advances in theory and practice. *Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting* [CD-ROM]. Santa Monica, CA: Human Factors and Ergonomics Society.
13. Strater, L., Cuevas, H. M., Bolstad, C. A., Costello, A. M., & Scielzo, S. (2012). Promoting individual and team cognitive readiness in complex domains. *Proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting* [CD-ROM]. Santa Monica, CA: Human Factors and Ergonomics Society.
14. Strater, L., Holbrook, J., Beard, T., Cuevas, H. M., & Endsley, M. R. (2012). An initial investigation of the impact of operator-automation goal divergence in the tower. *Proceedings of the Fourth International Conference on Applied Human Factors and Ergonomics (AHFE)*. Boca Raton, FL: Taylor & Francis.
15. Strater, L., Scielzo, S., Lenox, M., Bolstad, C. A., Cuevas, H. M., & Endsley, M. R. (2012). Cognitive task analysis as the basis for data integration: Promoting cross-cultural situation awareness. *Proceedings of the Fourth International Conference on Applied Human Factors and Ergonomics (AHFE)*. Boca Raton, FL: Taylor & Francis.

16. Cuevas, H. M., Jones, R. E. T. & Mossey, M. E. (2011). Team and shared situation awareness in disaster action teams. *Proceedings of the Human Factors and Ergonomics Society 55th Annual Meeting* (pp. 365-369). Santa Monica, CA: Human Factors and Ergonomics Society.
17. Bolstad, C. A. & Cuevas, H. M. (2010). Integrating situation awareness assessment into human systems integration. *Proceedings of the Undersea Human Systems Integration (UHSI) 2010 Symposium*. Alexandria, VA: American Society of Naval Engineers.
18. Bolstad, C. A., Cuevas, H. M., Connors, E. S., Foltz, P. W., Gonzalez, C., Lau, N. K. C., & Warwick, W. J. (2010). Advances in modeling situation awareness, decision-making, and performance in complex operational environments. *Proceedings of the Human Factors and Ergonomics Society 54th Annual Meeting* (pp. 1047-1051). Santa Monica, CA: Human Factors and Ergonomics Society.
19. Cuevas, H. M. & Bolstad, C. A. (2010). Influence of team leaders' situation awareness on their team's situation awareness and performance. *Proceedings of the Human Factors and Ergonomics Society 54th Annual Meeting* (pp. 309-313). Santa Monica, CA: Human Factors and Ergonomics Society.
20. Kim, H., Oh, S., Minotra, D., McNeese, M., Yen, J., Hanratty, T., Strater, L., Cuevas, H., & Colombo, D. (2010). Enhancing situation awareness with visual aids on cognitively-inspired agent systems. In G. Salvendy & W. Karwowski (Eds.), *Proceedings of the Third International Conference on Applied Human Factors and Ergonomics (AHFE)*. Boca Raton, FL: Taylor & Francis.
21. Minotra, D., Oh, S., Kim, H., McNeese, M., Yen, J., Hanratty, T., Strater, L., Cuevas, H., & Colombo, D. (2010). Establishing trust in decision-aiding: The role of a visualization of agent-decision space in improving operator engagement with reduced cognitive load. In G. Salvendy & W. Karwowski (Eds.), *Proceedings of the Third International Conference on Applied Human Factors and Ergonomics (AHFE)*. Boca Raton, FL: Taylor & Francis.
22. Saner, L., Bolstad, C. A., Gonzalez, C., & Cuevas, H. M. (2010). Predicting shared situation awareness in teams: A case of differential SA requirements. *Proceedings of the Human Factors and Ergonomics Society 54th Annual Meeting* (pp. 314-318). Santa Monica, CA: Human Factors and Ergonomics Society.
23. Bolstad, C. A., Cuevas, H. M., Wang-Costello, J., Endsley, M. R., Page, W. J. & Kass-Hout, T. (2009). Integrating human capabilities into biosurveillance systems: A study of biosurveillance and situation awareness. *Proceedings of the International Ergonomics Association (IEA) 17th World Congress on Ergonomics*, Beijing, China, 9-14 August 2009. Amsterdam: Elsevier.
24. Gonzalez, C., Saner, L., Endsley, M. R., Bolstad, C. A., & Cuevas, H. M. (2009). Modeling and measuring situation awareness in individuals and teams. In P. McDermott & L. Allender (Eds.), *Advanced Decision Architectures for the Warfighter: Foundations and Technology – Proceedings of the Advanced Decision Architectures Final RMB Workshop* (pp. 257-272), Washington, DC, 22-23 July 2009.
25. Hanratty, T., Yen, J., McNeese, M., Oh, S., Kim, A., Minotra, D., Strater, L., Cuevas, H. M., Colombo, D., & Hammell, II, R. J. (2009). Knowledge visualization to enhance human-agent situational awareness within a computational recognition-primed decision system. *Proceedings of the 5th IEEE Workshop on Situation Management (SIMA 2009)*, held in conjunction with IEEE MILCOM 2009, Boston, MA, 20 October 2009. [Best Paper Award]
26. Strater, L., Scielzo, S., Lenox-Tinsley, M., Bolstad, C. A., Cuevas, H. M., & Endsley, M. R. (2009). Tools to support ad hoc teams. In P. McDermott & L. Allender (Eds.), *Advanced Decision Architectures for the Warfighter: Foundations and Technology – Proceedings of the Advanced Decision Architectures Final RMB Workshop* (pp. 359-377), Washington, DC, 22-23 July 2009.

27. Yen, J., Strater, L., McNeese, M., Fan, X. Cuevas, H. M., Oh, S., Kim, A., Minotra, D., & Hanratty, T. (2009). Cognitively-inspired agents as teammates and decision aids. In P. McDermott & L. Allender (Eds.), *Advanced Decision Architectures for the Warfighter: Foundations and Technology – Proceedings of the Advanced Decision Architectures Final RMB Workshop* (pp. 219-236), Washington, DC, 22-23 July 2009.
28. Saner, L., Bolstad, C. A., Gonzalez, C., & Cuevas, H. M. (2008). Measuring and predicting shared situation awareness in military teams. *Proceedings of the 3rd Network Science Workshop*, 15-17 October 2008. Westpoint, NY: U. S. Military Academy.
29. Bolstad, C. A., Cuevas, H. M., Costello, A. M., & Babbitt, B. A. (2008). Predicting cognitive readiness of deploying military medical teams. *Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting* (pp. 970-974). Santa Monica, CA: Human Factors and Ergonomics Society.
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SCHOLARLY COMMONS – STUDENT WORKS

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2. Stevenson, L., Cuevas, H. M., Kirkpatrick, K. S., Rivera, K. K., & Aguiar, M. D. (2020) Gender diversity in the aviation workplace. Retrieved from <https://commons.erau.edu/student-works/162/>

TECHNICAL REPORTS / WHITE PAPERS

1. Cuevas, H. M., Bowyer, S. R., Coyne, W., Lauth, M. R., & Penton, A. C. (2021, September). *FAA Air Traffic Organization Training Culture Change*. Final Report submitted to the FAA ATO Safety and Technical Training under the FAA Center of Excellence on Technical Training and Human Performance. Daytona Beach, FL: Embry-Riddle Aeronautical University.
2. Cuevas, H. M., Kirkpatrick, K. S., Rivera, K. K., & Aguiar, M. D. (2020, July). *Gender diversity in the aviation workplace*. Final Report prepared under Faculty Internal Research Grant Award 13218. Daytona Beach, FL: Embry-Riddle Aeronautical University.
3. Cuevas, H. M., Soler, S., Griffith, B., Hawkins, V., Brown, C., Martorella, J., Piazza, J., Aguiar, M., & Brooks, J. (2018, November). *Episodic memory reconstruction for UAV behavior explanation ("EpEx")*. Subcontractor Final Report prepared for Soar Technology, Inc. Daytona Beach, FL: Embry-Riddle Aeronautical University.
4. Cuevas, H. M., Kendrick, K. M., Zeigler, Z. A., & Hamilton, D. J. (2014, August). *Team cognition in human-automation teams*. Final Report prepared under Faculty Internal Research Grant Award 13208. Daytona Beach, FL: Embry-Riddle Aeronautical University.
5. Bolstad, C. A., Cuevas, H. M., & Costello, A. M. (2012, April). *Team Cognitive REadiness Survey Tool (T-CREST) Cognitive Readiness Factors Identification Study*. Final Report prepared under contract for BC Ambulance Service (BCAS), Vancouver, Canada. Marietta, GA: SA Technologies, Inc.
6. Riley, J. R., Tinsley, M., Cuevas, H. M. & Anderson, T. (2011, December). *Situation awareness fundamentals training*. Final Report prepared for Alyeska Pipeline Service Company. Marietta, GA: SA Technologies, Inc.
7. Bolstad, C. A., Costello, A. M., Cuevas, H. M., & Jones, R. E. T. (2011, November). *Cognitive Readiness Evaluation and Augmentation Tool for Operational Readiness (CREATOR)*. Final Technical Report prepared under OSD SBIR Phase I Contract Topic OSD10-CR8 "Decision Support: Cognitive Readiness Assessment and Reporting." Marietta, GA: SA Technologies.

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10. Bolstad, C. A., Cuevas, H. M., Craddock, C., & Lomax, C. D. (2011, February). *Layered-Sensing Situation Awareness Intuitive Displays (L-SAID) – Final Scientific and Technical Report*. Prepared under Air Force SBIR Phase I Contract Topic AF093-031 Intuitive Interfaces for "Layered Sensing". Marietta, GA: SA Technologies.
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CONFERENCE PRESENTATIONS (PEER REVIEWED)

1. Lee, S., Wallace, R. J. & Cuevas, H. M. (2022, April). Creating communities of practice to promote sustainability: A framework for organizational change. Paper presented at Embry-Riddle Aeronautical University Sustainability Conference, Daytona Beach, FL, 12 April 2022.

2. Albelo, J. L. D., Cuevas, H. M., Stevenson, L., Rivera, K. K., Kirkpatrick, K. S., & Aguiar, M. D. (2021, October). Women's perceptions of the aviation workplace: An exploratory study. Paper presented at the 2021 University Aviation Association (UAA) Collegiate Aviation Conference, Memphis, TN, 6-8 October 2021.
3. Cuevas, H. M. & Aguiar, M. D. (2021). Metacognitive situation awareness in aviation. Paper presented at the 2021 International Symposium on Aviation Psychology Virtual Conference, 18-21 May 2021 [<https://youtu.be/ZTmfoDexlzs>]
4. Aguiar, M., Cuevas, H. M., & Piccone, C. J. (2020, March). Application of a skill taxonomy in aviation. Paper presented at the 2020 National Training Aircraft Symposium (NTAS), Daytona Beach, FL, 2-4 March 2020.
5. Kirkpatrick, K. S., Rivera, K. K., Aguiar, M., Stevenson, L., & Cuevas, H. M. (2020, March). Gender differences in factors influencing retention in aviation. Paper presented at the 2020 National Training Aircraft Symposium (NTAS), Daytona Beach, FL, 2-4 March 2020.
6. Cuevas, H. M., Mullins, K. J., Summers, B. C., & Hancock, G. M. (2018, October). Creating amazing leaders. Alternative format presentation presented at the 2018 HFES International Annual Meeting, Philadelphia, PA, 1-5 October 2018.
7. Hancock, G., Stowers, K., Bass, E., Cooke, N., Cummings, M., Cuevas, H. M., Gawron, V., & Larsen, N. (2018, October). Women's leadership in HF/E: Past, present & future. Discussion panel presented at the 2018 HFES International Annual Meeting, Philadelphia, PA, 1-5 October 2018.
8. Mullins, K. J. & Cuevas, H. M. (2018, October). Mentors, mentees, and building a board of directors: The big questions in personal and career development through mentorship. Alternative format presentation presented at the 2018 HFES International Annual Meeting, Philadelphia, PA, 1-5 October 2018.
9. Samman, S., Cuevas, H. M., Bernabeo, A., & Webster, K. (2018, August). Impact of culture on situation awareness: A cross-cultural comparison between USA and UAE. Lecture paper presented at the 20th Congress International Ergonomics Association, Florence, Italy, 26-30 August 2018.
10. Aguiar, M. & Cuevas, H. M. (2018, May). Development of a skill taxonomy. Lecture paper presented at the 2018 Institute of Industrial & Systems Engineers (IISE) Annual Conference and Expo, Orlando, FL, 19-22 May 2018.
11. Cuevas, H. M. (2017, October). The mentoring game. Alternative format presentation presented at the 2017 HFES International Annual Meeting, Austin, TX, 9-13 October 2017.
12. Cuevas, H. M., Kendrick, K. M., Zeigler, Z. A., & Hamilton, D. J. (2015, May). Investigating UAS operator characteristics influencing mission success. Paper presented at the 18th International Symposium on Aviation Psychology, Dayton, OH, 4-7 May 2015.
13. Cuevas, H. M. (2014, October). Getting published. Alternative format presentation presented at the 2014 Human Factors and Ergonomics Society International Annual Meeting, Chicago, IL, 27-31 October 2014.
14. Kelling, N., Corso, G. M., Cuevas, H. M., Keebler, J. R., Peres, S. C., & Walker, B. N. (2014, October). Variance in academia: It is not all R1's out there and even those are not what you think. Discussion panel presented at the 2014 Human Factors and Ergonomics Society International Annual Meeting, Chicago, IL, 27-31 October 2014.
15. Cuevas, H. M., Zgorski, R. A., Kring, J. P., Caldwell, B. S., Null, C. H., Henwood, B., & Fiore, S. M. (2013, September-October). Human factors in commercial human space operations. Discussion panel presented at the 2013 Human Factors and Ergonomics Society International Annual Meeting, San Diego, CA, 30 September – 4 October 2013.
16. Kelling, N., Bedwell, W., Corso, G. M., Cuevas, H. M., Keebler, J. R. Peres, S. C., & Walker, B. N. (2013, September-October). Life, the universe, and academia: Success in early career academia. Discussion panel presented at the 2013 Human Factors and Ergonomics Society International Annual Meeting, San Diego, CA, 30 September – 4 October 2013.

17. Cuevas, H. M. & Caldwell, B. S. (2013, May). Exploring the boundaries of command and control models of distributed team performance in aviation and aerospace operations. Paper presented at the 17th International Symposium on Aviation Psychology, Dayton, OH, 6-9 May 2013.
18. Cuevas, H. M. & Schmorrow, D. D. (co-chairs) (2012, October). Exploring cognitive readiness in complex operational environments: Advances in theory and practice. Symposium presented at the Human Factors and Ergonomics Society 56th Annual Meeting, Boston, MA, 22-26 October 2012.
19. Strater, L., Cuevas, H. M., Bolstad, C. A., Costello, A. M., & Scielzo, S. (2012, October). Promoting individual and team cognitive readiness in complex domains. In H. M. Cuevas & D. D. Schmorrow (co-chairs), *Exploring cognitive readiness in complex operational environments: Advances in theory and practice*. Symposium presented at the Human Factors and Ergonomics Society 56th Annual Meeting, Boston, MA, 22-26 October 2012.
20. Strater, L., Holbrook, J., Beard, T., Cuevas, H. M., & Endsley, M. R. (2012, July). An initial investigation of the impact of operator-automation goal divergence in the tower. Paper presented at the Fourth International Conference on Applied Human Factors and Ergonomics (AHFE), San Francisco, CA, 21-25 July 2012.
21. Strater, L., Scielzo, S., Lenox, M., Bolstad, C. A., Cuevas, H. M., & Endsley, M. R. (2012, July). Cognitive task analysis as the basis for data integration: Promoting cross-cultural situation awareness. Paper presented at the Fourth International Conference on Applied Human Factors and Ergonomics (AHFE), San Francisco, CA, 21-25 July 2012.
22. Cuevas, H. M., Jones, R. E. T., & Mossey, M. E. (2011, September). Team and shared situation awareness in disaster action teams. Paper presented at the Human Factors and Ergonomics Society 55th Annual Meeting, Las Vegas, NV, 19-23 September 2011.
23. Bolstad, C. A. & Cuevas, H. M. (2011, May). Multifaceted approach to situation awareness assessment. Paper presented at the 2011 ITEA Test Instrumentation Workshop, Las Vegas, NV, 9-12 May 2011.
24. Bolstad, C. A. & Cuevas, H. M. (2011, May). Promoting team cognitive readiness and team effectiveness in complex domains. Paper presented at the Department of Defense Human Factors Engineering Technical Advisory Group (DoD HFE TAG) Meeting 65, Natick, MA, 2-5 May 2011.
25. Cuevas, H. M., Bolstad, C. A., Oberbreckling, R., LaVoie, N., Mitchell, D., Fielder, J., & Foltz, P. W. (2011, May). Benefits and challenges of multidisciplinary project teams: "Lessons learned" for researchers and practitioners. Paper presented at the 2011 ITEA Test Instrumentation Workshop, Las Vegas, NV, 9-12 May 2011.
26. Bolstad, C. A., Cuevas, H. M., Connors, E. S., Foltz, P. W., Gonzalez, C., Lau, N. K. C., & Warwick, W. J. (2010, September-October). Advances in modeling situation awareness, decision-making, and performance in complex operational environments. Discussion panel presented at the Human Factors and Ergonomics Society 54th Annual Meeting, San Francisco, CA, 27 September – 1 October 2010.
27. Cuevas, H. M. & Bolstad, C. A. (2010, September-October). Influence of team leaders' situation awareness on their team's situation awareness and performance. Lecture presented at the Human Factors and Ergonomics Society 54th Annual Meeting, San Francisco, CA, 27 September – 1 October 2010.
28. Saner, L., Bolstad, C. A., Gonzalez, C., & Cuevas, H. M. (2010, September-October). Predicting shared situation awareness in teams: A case of differential SA requirements. Lecture presented at the Human Factors and Ergonomics Society 54th Annual Meeting, San Francisco, CA, 27 September – 1 October 2010.
29. Bolstad, C. A. & Cuevas, H. M. (2010, July). Integrating situation awareness assessment into human systems integration. Paper presented at the Undersea Human Systems Integration (UHSI) 2010 Symposium, Providence, RI, 27-29 July 2010.

30. Kim, H., Oh, S., Minotra, D., McNeese, M., Yen, J., Hanratty, T., Strater, L., Cuevas, H. M., & Colombo, D. (2010, July). Enhancing situation awareness with visual aids on cognitively-inspired agent systems. Paper presented at the Third International Conference on Applied Human Factors and Ergonomics (AHFE), Miami, FL, 17-20 July 2010.
31. Minotra, D., Oh, S., Kim, H., McNeese, M., Yen, J., Hanratty, T., Strater, L., Cuevas, H. M., & Colombo, D. (2010, July). Establishing trust in decision-aiding: The role of a visualization of agent-decision space in improving operator engagement with reduced cognitive load. Paper presented at the Third International Conference on Applied Human Factors and Ergonomics (AHFE), Miami, FL, 17-20 July 2010.
32. Hanratty, T., Yen, J., McNeese, M., Oh, S., Kim, A., Minotra, D., Strater, L., Cuevas, H. M., Colombo, D., & Hammell, II, R. J. (2009, October). Knowledge visualization to enhance human-agent situational awareness within a computational recognition-primed decision system. Paper presented at the 5th IEEE Workshop on Situation Management (SIMA 2009), held in conjunction with IEEE MILCOM 2009, Boston, MA, 20 October 2009. [Best Paper Award]
33. Bolstad, C. A., Cuevas, H. M., Wang-Costello, J., Endsley, M. R., Page, W. J. & Kass-Hout, T. (2009, August). Integrating human capabilities into biosurveillance systems: A study of biosurveillance and situation awareness. Lecture presented at the International Ergonomics Association (IEA) 17th World Congress on Ergonomics, Beijing, China, 9-14 August 2009.
34. Gonzalez, C., Saner, L., Endsley, M. R., Bolstad, C. A., & Cuevas, H. M. (2009, July). Modeling and measuring situation awareness in individuals and teams. Paper presented at the Advanced Decision Architectures Final RMB Workshop, Washington, DC, 22-23 July 2009.
35. Strater, L., Scielzo, S., Lenox-Tinsley, M., Bolstad, C. A., Cuevas, H. M., & Endsley, M. R. (2009, July). Tools to support ad hoc teams. Paper presented at the Advanced Decision Architectures Final RMB Workshop, Washington, DC, 22-23 July 2009.
36. Yen, J., Strater, L., McNeese, M., Fan, X. Cuevas, H. M., Oh, S., Kim, A., Minotra, D., & Hanratty, T. (2009, July). Cognitively-inspired agents as teammates and decision aids. Paper presented at the Advanced Decision Architectures Final RMB Workshop, Washington, DC, 22-23 July 2009.
37. Saner, L., Bolstad, C. A., Gonzalez, C., & Cuevas, H. M. (2008, October). Measuring and predicting shared situation awareness in military teams. Paper presented at the 3rd Network Science Workshop, U. S. Military Academy, Westpoint, NY, 15-17 October 2008.
38. Bolstad, C. A., Cuevas, H. M., Costello, A. M., & Babbitt, B. A. (2008, September). Predicting cognitive readiness of deploying military medical teams. Lecture presented at the Human Factors and Ergonomics Society 52nd Annual Meeting, New York, NY, 22-26 September 2008.
39. Fan, X., Oh, S., McNeese, M., Yen, J., Cuevas, H., Strater, L., & Endsley, M. R. (2008, September). The influence of agent reliability on trust in human-agent collaboration. Paper presented at the 15th European Conference on Cognitive Ergonomics (ECCE 2008): The Ergonomics of Cool Interaction, Funchal, Portugal, 16-19 September 2008.
40. Strater, L., Cuevas, H., Connors, E., Ungvarsky, D., & Endsley, M. (2008, September). Situation awareness and collaborative tool usage in ad hoc command and control teams. Lecture presented at the Human Factors and Ergonomics Society 52nd Annual Meeting, New York, NY, 22-26 September 2008.
41. Fiore, S. M., Cuevas, H. M., & Scielzo, S. (2008, June). Understanding metacognitive biases in complex tasks. In A. Antonietti (Chair), *Metacognition in understanding multimedia presentations*. Symposium presented at the 2008 International Conference for the Learning Sciences (ICLS), Utrecht, The Netherlands, 24-28 June 2008.
42. Bolstad, C. A., Endsley, M. R., & Cuevas, H. M. (2008, May). Team coordination and shared situation awareness in combat identification. Paper presented at the Human Factors in

- Combat Identification Workshop (sponsored by the Air Force Research Laboratory), Apache Junction, AZ, 13-15 May 2008.
43. Caldwell, B. S. & Cuevas, H. M. (2008, March). Coordinating cycles of activity in distributed expert teams: An "Information Clutch" metaphor. Paper presented at the 9th International Symposium on Human Factors in Organizational Design and Management (ODAM 2008), São Paulo, Brasil, 19-21 March 2008.
 44. Bolstad, C. A., Foltz, P., Franzke, M., Cuevas, H. M., Rosenstein, M., & Costello, A. M. (2007, October). Predicting situation awareness from team communications. Lecture presented at the Human Factors and Ergonomics Society 51st Annual Meeting, Baltimore, MD, 1-5 October 2007.
 45. Milham, L. M., Cuevas, H. M., & Carroll, M. (2007, October). Investigating the effects of 3-D spatialized auditory cues on the development of situation awareness for teams. Poster presented at the Human Factors and Ergonomics Society 51st Annual Meeting, Baltimore, MD, 1-5 October 2007.
 46. Bolstad, C. A., Cuevas, H. M., Babbitt, B. A., Semple, C. A., & Vestewig, R. E. (2007, June). Predicting the cognitive readiness of military health teams through M-CREST. Invited paper presented at the 10th World Congress on Integrated Design and Process Technology (IDPT 2007), Antalya, Turkey, 3-8 June 2007.
 47. Cuevas, H. M., Strater, L., Caldwell, B. S., & Fiore, S. M. (2007, June). Team cognition in human-automation teams. Poster presented at the Eighth International Conference on Naturalistic Decision Making, Pacific Grove, CA, 3-6 June 2007.
 48. Strater, L., Ungvarsky, D., Bolstad, C., Cuevas, H., Connors, E. & Endsley, M. (2007, June). Team mindfulness and situation awareness in ad hoc command and control teams. Poster presented at the Eighth International Conference on Naturalistic Decision Making, Pacific Grove, CA, 3-6 June 2007.
 49. Costello, A., Strater, L., Bolstad, C. A., Cuevas, H. M., & Endsley, M. R. (2006, November). Communication and situation awareness in ad hoc teams. Poster presented at the 25th Army Science Conference, Orlando, FL, 27-30 November 2006.
 50. Cuevas, H. M. & Fiore, S. M. (2006, October). Enhancing learners' cognitive and metacognitive processes via learner-generated elaboration. Poster presented at the Human Factors and Ergonomics Society 50th Annual Meeting, San Francisco, CA, 16-20 October 2006.
 51. Shapiro, R. G., Cuevas, H. M., Posada, M. M., & Shapiro, R. (2006, August). Games to explain human factors: Come, participate, have fun! Workshop presented at the 114th Annual Convention of the American Psychological Association, New Orleans, LA, 10-13 August 2006.
 52. Bolstad, C. A., Cuevas, H. M., Babbitt, B. A., Semple, C. A., & Vestewig, R. E. (2006, July). Predicting cognitive readiness of military health teams. Paper presented at the International Ergonomics Association (IEA) 16th World Congress on Ergonomics, Maastricht, The Netherlands, 10-14 July 2006.
 53. Cuevas, H. M., Costello, A. M., Bolstad, C. A., & Endsley, M. R. (2006, July). Facilitating distributed team collaboration. Paper presented at the International Ergonomics Association (IEA) 16th World Congress on Ergonomics, Maastricht, The Netherlands, 10-14 July 2006.
 54. Riley, J. M., Bolstad, C. A., Cuevas, H. M., & Endsley, M. R. (2006, July). Planning and situation awareness in Army command and control. Paper presented at the International Ergonomics Association (IEA) 16th World Congress on Ergonomics, Maastricht, The Netherlands, 10-14 July 2006.
 55. Bolstad, C. A., Cuevas, H. M., Costello, A. M., & Rousey, J. (2005, September). Improving situation awareness through cross-training. Lecture presented at the Human Factors and Ergonomics Society 49th Annual Meeting, Orlando, FL, 26-30 September 2005.

56. Sanchez, A., Cuevas, H. M., Fiore, S. M., Cannon-Bowers, J. A. (2005, September). Virtual field trips: Synthetic experiences and learning. Demonstration presented at the Human Factors and Ergonomics Society 49th Annual Meeting, Orlando, FL, 26-30 September 2005.
57. Scielzo, S., Cuevas, H. M., & Fiore, S. M. (2005, September). Investigating individual differences and instructional efficiency in computer-based training environments. Poster presented at the Human Factors and Ergonomics Society 49th Annual Meeting, Orlando, FL, 26-30 September 2005.
58. Cuevas, H. M., Harper, M., & Shapiro, R. G. (2005, August). What to do (and not do) during a job interview. Special APAGS session presented at the 113th Annual Convention of the American Psychological Association, Washington, DC, 18-21 August 2005.
59. Shapiro, R. G., Cuevas, H. M., & Fritts, B. E. (2005, August). Games to explain human factors: Come, participate, have fun! Workshop presented at the 113th Annual Convention of the American Psychological Association, Washington, DC, 18-21 August 2005.
60. Bolstad, C. A., Cuevas, H. M., Gonzalez, C., & Schneider, M. (2005, May). Modeling shared situation awareness. Paper presented at the 14th Conference on Behavior Representation in Modeling and Simulation (BRIMS), Universal City, CA, 16-19 May, 2005.
61. Cuevas, H. M., Fiore, S. M., & Kring, J. P. (2005, January). Understanding memory actions and memory failures in extreme environments. Paper presented at the Second Annual Meeting of the Society for Human Performance in Extreme Environments (HPEE), Orlando, FL, 19-29 January 2005.
62. Cuevas, H. M. (2004, September). Automated system interfaces: An illustrative example of four HCI design approaches. Poster presented at the Human Factors and Ergonomics Society 48th Annual Meeting, New Orleans, LA, 20-24 September 2004.
63. Cuevas, H. M., Fiore, S. M., Bowers, C. A., & Salas, E. (2004, September). Using guided learner-generated instructional strategies to transform learning into a constructive cognitive and metacognitive activity. Poster presented at the Human Factors and Ergonomics Society 48th Annual Meeting, New Orleans, LA, 20-24 September 2004.
64. Cuevas, H. M. (organizer and chair). (2004, July). Succeeding in today's high tech marketplace: Jobs, internships, networking, mentors. Panel session presented at the 112th Annual Convention of the American Psychological Association, Honolulu, HI, 28 July – 1 August 2004.
65. Cuevas, H. M., Cannon-Bowers, J., & Fiore, S. M. (2004, July). Creating dynamic learning experiences in students via virtual field trips. In C. A. Bowers (chair), *Promoting education within synthetic learning environments*. Symposium presented at the 112th Annual Convention of the American Psychological Association, Honolulu, HI, 28 July – 1 August 2004.
66. Kring, J. P., Cuevas, H. M., & Goudarzi, S. (2004, July). Habitat design considerations for mitigating social stressors in long-duration spaceflight. Paper presented at the 34th International Conference on Environmental Systems (ICES), Colorado Springs, CO.
67. Cuevas, H. M. (2004, March). A transactional approach to investigating stressor effects during space flight. In J. Kring & J. Barnett (co-chairs), *Human performance in extreme environments: From the battlefield to the final frontier*. Panel session presented at the Human Performance, Situation Awareness and Automation Technology Conference (HPSAA II), Daytona Beach, FL, 22-25 March 2004.
68. Cuevas, H. M. (2003, October). Mitigating the negative effects of stress in space flight: A transactional approach. Paper presented at the First Annual Meeting of the Society for Human Performance in Extreme Environments (HPEE), Denver, CO, 12 October 2003.
69. Cuevas, H. M. (2003, October). 7 habits of highly effective HFES students: Making your HFES membership work for you. Lecture presented at the Human Factors and Ergonomics Society 47th Annual Meeting, Denver, CO, 13-17 October 2003.

70. Cuevas, H. M. (2003, October). The pilot personality and individual differences in the stress response. Poster presented at the Human Factors and Ergonomics Society 47th Annual Meeting, Denver, CO, 13-17 October 2003.
71. Fiore, S. M., Cuevas, H. M., & Salas, E. (2003, October). Putting working memory to work: Integrating cognitive science theories with cognitive engineering research. Lecture presented at the Human Factors and Ergonomics Society 47th Annual Meeting, Denver, CO, 13-17 October 2003.
72. Scielzo, S., Fiore, S. M., Cuevas, H. M., & Klein, J. L. (2003, October). Impact of multimedia presentation on knowledge acquisition for complex training. Lecture presented at the Human Factors and Ergonomics Society 47th Annual Meeting, Denver, CO, 13-17 October 2003.
73. Karwowski, W. & Cuevas, H. M (co-chairs). (2003, October). Considering the importance of individual differences in human factors research: No longer simply confounding noise. Panel presented at the Human Factors and Ergonomics Society 47th Annual Meeting, Denver, CO, 13-17 October 2003.
74. Cuevas, H. M., Fiore, S. M., Bowers, C. A., & Salas, E. (2003, August). Fostering constructive cognitive and metacognitive activity in computer-based training environments. In H. Emurian (chair), *Multidisciplinary perspectives on human-computer interaction*. Symposium presented at the 111th Annual Convention of the American Psychological Association, Toronto, Canada, 7-10 August 2003.
75. Scielzo, S., Fiore, S. M., & Cuevas, H. M. (2003, August). Impact of multimedia on knowledge acquisition for complex training environments. Paper presented at the 111th Annual Convention of the American Psychological Association, Toronto, Canada, 7-10 August 2003.
76. Cuevas, H. M., Fiore, S. M., Salas, E. & Bowers, C. A. (2002, October). A macroergonomic approach to distributed team performance. Lecture presented at the Human Factors and Ergonomics Society 46th Annual Meeting, Baltimore, MD, 30 September – 4 October, 2002.
77. Cuevas, H. M., & Hilscher, M. (2002, October). Spotlight on educating our future professionals: What human factors and ergonomics means to students. Poster presented at the Human Factors and Ergonomics Society 46th Annual Meeting, Baltimore, MD, 30 September – 4 October, 2002.
78. Fiore, S. M., Cuevas, H. M., Salas, E. & Schooler, J. W. (2002, October). Distributed teams and distributed memory. In E. Salas & S. M. Fiore (Chairs), *Team cognition: Process and performance at the inter- and intra-individual level*. Symposium presented at the Human Factors and Ergonomics Society 46th Annual Meeting, Baltimore, MD, 30 September – 4 October, 2002.
79. Fiore, S. M., Cuevas, H. M., Scielzo, S., & Salas, E. (2002, October). Metacognitive bias in complex task training: Influence of verbal ability in performance prediction accuracy. Lecture presented at the Human Factors and Ergonomics Society 46th Annual Meeting, Baltimore, MD, 30 September – 4 October, 2002.
80. Scielzo, S., Fiore, S. M., Cuevas, H. M., & Salas, E. (2002, October). The utility of mental model assessment in diagnosing cognitive and metacognitive processes for complex training. Poster presented at the Human Factors and Ergonomics Society 46th Annual Meeting, Baltimore, MD, 30 September – 4 October, 2002.
81. Cuevas, H. M. (2002, August). Role of mental models in human factors and aircraft automation: Implications for human performance. Poster presented at the 110th Annual Convention of the American Psychological Association, Chicago, IL, 22-25 August 2002.
82. Scielzo, S., Fiore, S. M., & Cuevas, H. M. (2002, August). Impact of multimedia presentation on knowledge acquisition for complex systems. Poster presented at the 110th Annual Convention of the American Psychological Association, Chicago, IL, 22-25 August 2002.
83. Scielzo, S., Fiore, S. M., Samman, S. N., Cuevas, H. M., Bowers, C. A., & Salas, E. (2002, August). Effects of multimedia on knowledge acquisition. Paper presented at the 110th

- Annual Convention of the American Psychological Association, Chicago, IL, 22-25 August 2002.
84. Cuevas, H. M., Fiore, S. M., & Oser, R. L. (2001, October). The facilitative effects of diagrams on scaffolding knowledge acquisition and metacognition in low verbal ability learners. Lecture presented at the Human Factors and Ergonomics Society 45th Annual Meeting, Minneapolis, MN, 8-12 October 2001.
 85. Cuevas, H. M., Huthmann, A., Knudsen, A., & Chein-Wei, C. (2001, October). Performance differences in a navigation task among users presented with a north-up versus track-up orientation map display. Poster presented at the Human Factors and Ergonomics Society 45th Annual Meeting, Minneapolis, MN, 8-12 October 2001.
 86. Fiore, S. M., Cuevas, H. M., Oser, R. L. (2001, April). A picture is worth a thousand connections: The facilitative effects of diagrams on task performance and mental model development. In S. M. Fiore (Chair), *Cognition and cognitive technology: Maximizing "multi-modality" when implementing "multi-media" training*. Symposium presented at the 16th Annual Conference of the Society for Industrial and Organizational Psychology, San Diego, CA, 27-29 April 2001.
 87. Cuevas, H. M., Fiore, S. M., & Oser, R. L. (2000, August). Individual differences in complex task learning via interactive systems. Poster presented at the International Ergonomics Association (IEA) 14th World Congress on Ergonomics and the Human Factors and Ergonomics Society 44th Annual Meeting, San Diego, CA, 29 July – 4 August 2000.
 88. Fiore, S. M., Oser, R. L., & Cuevas, H. M. (2000, August). Knowledge structure instantiation: Implications for measurement and transfer. Poster presented at the International Ergonomics Association (IEA) 14th World Congress on Ergonomics and the Human Factors and Ergonomics Society 44th Annual Meeting, San Diego, CA, 29 July – 4 August 2000.
 89. Rhodenizer, L., Pharmer, J., Bowers, C. A., & Cuevas, H. M. (2000, August). An analysis of critical incident reports from a 911 center. Poster presented at the International Ergonomics Association (IEA) 14th World Congress on Ergonomics and the Human Factors and Ergonomics Society 44th Annual Meeting, San Diego, CA, 29 July – 4 August 2000.
 90. Cuevas, H. M. & Bowers, C. A. (2000, April). Effects of a force-feedback steering wheel in a driving simulation task. Poster presented at the 1st Annual Florida Human Factors and Ergonomics Student Meeting, Orlando, FL, 21 April 2000.
 91. Milham, L., Fisak, B., Cuevas-Mesa, H., Navarro, G., & Smither, J. (1999, September). Using computers to improve functional literacy in older adults. Poster presented at the Human Factors and Ergonomics Society 43rd Annual Meeting, Houston, TX, 27 September – 1 October 1999.
 92. Bowers, C. A. & Cuevas-Mesa, H. (1999, August). Applying applied psychology to psychologists: Division 21 and the APA. Division 21 Presidential Address presented at the 107th Annual Convention of the American Psychological Association, Boston, MA, 20-24 August 1999.
 93. Merket, D. C., Bergondy, M., & Cuevas-Mesa, H. (1997, March). Making sense out of teamwork errors in complex environments. Paper presented at the 18th Annual Industrial/Organizational-Organizational Behavior Graduate Student Conference, Roanoke, VA.
 94. Thomas, M. H., Wang, A. Y., Cuevas-Mesa, H., Rizzo, C., & Tapia, K. (1996, April). The pegword mnemonic, self-devised learning strategies, and serial recall. Poster presented at the 43rd Annual Meeting of the Southeastern Psychological Association, Atlanta, GA.

INVITED PRESENTATIONS

1. Cuevas, H. M. (2021, May). *Promoting diversity in aviation*. Invited colloquium for University of Toronto, Human Factors Interest Group, 14 May 2021. [URL]
2. Cuevas, H. M. (2021, April). *P&T Workshop*. Invited webinar presentation to HF/E Women's Organization for Mentoring and Networking (HFE WOMAN), 23 April 2021.
[https://erau.zoom.us/rec/play/Vz3tWly6dHTL8PHPhhMm8OgS6nyr1Ok1QCbaB3RxbIFhYrPbVBTjF44GbiKWYb0NyrpEwTVgE4Rayll.WNyyijKNjc9NX9ds?startTime=1619200991000&x_zm_rtaid=IYS6FqncSJGP1y0cDAO60w.1621027298986.748f755a8fdf0d3b62f21bb13dd4c2b3&x_zm_rhtaid=663]
3. Cuevas, H. M. (2021, April). *Seven habits of highly effective HFES students*. Podcast recorded for University of Toronto Human Factors Interest Group.
[<https://anchor.fm/humanfactorsinterestgroup/episodes/HFIG-Talks---Student-Professional-Development-e12rgar/a-a5t2iu7>]
4. Cuevas, H. M. (2018, October). *The mentoring game*. Invited presentation during Student Career and Professional Development Day at the 2018 HFES International Annual Meeting, Philadelphia, PA, 1-5 October 2018.
5. Panelist, *Becoming a Professor Forum*, ERAU College of Aviation, School of Graduate Studies (7 November 2017).
6. Sasangohar, F., McKendrick, R., Baccus, W., Cuevas, H. M. & Harper, C. (2016, September). *Mentors and mentees*. Panel presented during the Student Career and Professional Development Day at the 2016 Human Factors and Ergonomics Society International Annual Meeting, Washington, DC, 19-23 September 2016.
7. Brill, J. C., Monk, C. A., Morgan, J. F., Cuevas, H. M. (2016, April 20). *Maintaining agility in the human factors/ergonomics job marketplace*. Webinar sponsored by the Human Factors and Ergonomics Society. <http://www.hfes.org/web/Webinars/2016AgilityWebinar.html>
8. Cuevas, H. M. (2013, February). *Team cognition in human-automation teams*. Invited guest lecture presented at the Florida Institute of Technology (FIT) Human-Centered Design Institute (HCDi) Retreat, Melbourne, FL, 23 February 2013.
9. Cuevas, H. M., Fletcher, J. D., & Pritchett, A., (2012, November). *Cognitive readiness*. Podcast recorded to promote the three-part special issue on cognitive readiness published in the *Journal of Cognitive Engineering and Decision Making* (JCEDM); Interviewer: Haydee Cuevas, Associate Editor for the JCEDM special issue; Interviewee: J. Dexter Fletcher, co-author of a seminal article on cognitive readiness (Morrison & Fletcher, 2002); Moderator: Amy Pritchett, JCEDM Editor-in-Chief. Weblink to podcast: https://secure-hwcdn.libsyn.com/p/1/5/a/15a6f412e01a29ae/JCEDM_Dexter_Haydee_Cognitive_Readiness_edit11512.mp3?c_id=7112640&expiration=1515535804&hwt=5ece3b5d356641fd678ed14baf27c713
10. Cuevas, H. M. & Gardner, R. J. (co-chairs) (2012, October). *A day in the life*. Panel presented during the Student Career and Professional Development Day at the Human Factors and Ergonomics Society 56th Annual Meeting, Boston, MA, 22-26 October 2012.
11. Saner, L., Bolstad, C. A., Gonzalez, C., & Cuevas, H. M. (2010, March 16). *Developing new metrics for shared situation awareness*. "Meet the Authors" Webinar sponsored by the Human Factors and Ergonomics Society.
12. Bolstad, C. A., Cuevas, H. M., Babbitt, B. A., Semple, C. A., & Vestewig, R. E. (2007, February). *Medical Cognitive REadiness Survey Tool (M-CREST)*. Invited demonstration presented at the 15th Annual Medicine Meets Virtual Reality (MMVR) Conference, Long Beach, CA, 6-9 February 2007.
13. Cuevas, H. M. & Strater, L. (2006, April). *Exploring the role of team metacognition for improving human-human and human-agent interaction in complex environments*. Poster

presented at the 2006 U.S. Army Research Laboratory Collaborative Technology Alliances Conference, Adelphi, MD, 5-6 April 2006.

14. Cuevas, H. M. & Strater, L. (2006, February). *Exploring the role of team metacognition for improving human-human and human-agent interaction in complex environments*. Poster presented at the Advanced Decision Architectures FY07 Planning and RMB Meeting, Westminster, CO, 22-24 February 2006.
15. Fiore, S. M., Cuevas, H. M., Upham-Ellis, L., Fincannon, T., & Cannon-Bowers, J. A. (2005, March). *Synthetic learning environments and the learning sciences*. Invited presentation at the simCAMP Meeting for the Florida High Tech Corridor Council, TechPath Educational Initiatives, Orlando, FL, March 2005.
16. Cuevas, H. M. & Bolstad, C. A. (2005, February). *Tools for supporting teams in collaborative tasks*. Poster presented at the Advanced Decision Architectures FY06 Planning and RMB Meeting, Westminster, CO, 23-25 February 2005.
17. Cuevas, H. M., Fiore, S. M., Cannon-Bowers, J. A. & Upham-Ellis, L. (2004, June). *Synthetic learning environments and the learning sciences*. Invited presentation at the TechCAMP Meeting for the Florida High Tech Corridor Council, TechPath Educational Initiatives. Center for Innovation and Technology – Manatee Community College, Sarasota, FL, 9 June 2004.
18. Cuevas, H. M., Fiore, S. M., Bowers, C. A., & Salas, E. (2004, March). *Supporting learners' cognitive and metacognitive processes in computer-based training environments*. Paper presented at the University of Central Florida Inaugural Graduate Research Forum, Orlando, FL, 22-23 March 2004.
19. Fiore, S. M., Cuevas, H. M., & Cannon-Bowers, J. A. (2003, December). *Synthetic learning environments and the learning sciences*. Invited presentation at the simCAMP Meeting for the Florida High Tech Corridor Council, TechPath Educational Initiatives. Advanced Technology Center, Daytona Beach, FL, 10 December 2003.
20. Cuevas, H. M. (2003, October). *Bringing a world of dynamic learning experiences to students via virtual field trips*. Invited paper presented at a Congressional meeting held in Washington, DC, to introduce legislation for the Digital Opportunity Investment Trust, 23 October 2003. Sponsored by the Federation of American Scientists, Washington, DC.

UNDER REVIEW / IN PREPARATION

1. Baker, E. R., Cuevas, H. M., Joslin, R. E., Dattel, A. R., & Still, D. L. Comparative analysis of conventional electronic and OZ concept displays for aircraft energy management. *Manuscript in preparation*.
2. Cuevas, H. M., Penton, A. C., Bowyer, S., Coyne, W., & Lauth, M. Facilitating training culture change in air traffic control: A case study. *Conference proposal under review*.

PROFESSIONAL AFFILIATIONS

Current

- Aviation Accreditation Board International
 - Diversity & Inclusion Committee
 - Collaborative Research Committee
- University Aviation Association

Past

- Human Factors and Ergonomics Society (HFES)
 - HFES Aerospace Systems Technical Group

- HFES Cognitive Engineering and Decision Making Technical Group
- HFES Education Technical Group
- HFES Individual Differences in Performance Technical Group
- Aerospace Medical Association
 - Aerospace Human Factors Association
- American Psychological Association (APA)
 - APA Division 21 - Applied Experimental & Engineering Psychology
- Association for Psychological Science (APS)
- Society for Human Performance in Extreme Environments (HPEE)
- Project Management Institute
- Golden Key National Honor Society
- Honor Society of Phi Kappa Phi
- Psi Chi National Honor Society in Psychology
- UCF HFES Student Chapter

PROFESSIONAL SERVICE

Appointed / Volunteer Positions

Human Factors and Ergonomics Society (HFES)

- Member, Technical Program Committee for the HFES Annual Meeting (2004-2007)
 - General Sessions Chair (2007)
 - Interim General Sessions Chair (2006)
 - Poster Sessions Coordinator (2004-2006)
- Program Chair, Individual Differences in Performance Technical Group for the HFES 49th Annual Meeting (2005)
- Reviewer for proposals submitted to the HFES Annual Meeting
 - Student Forum (2002, 2004, 2005, 2007)
 - General Sessions (2006, 2007, 2009, 2018)
 - Aerospace Systems Technical Group (2003, 2004, 2012, 2013)
 - Cognitive Engineering & Decision Making Technical Group (CEDM-TG) (2003-2006, 2011, 2012, 2013)
 - Education Technical Group (ETG) (2006, 2008, 2009, 2011, 2012, 2013)
 - Individual Differences in Performance Technical Group (2003-2006, 2013)
 - Perception and Performance Technical Group (2006)
- Selection Committee for the HFES Alphonse Chapanis Student Paper Award; Immediate Past Chair (2018), Chair (2015-2017), Member (2009–2014)
- Chair, Selection Committee for the ETG Best Student Paper Award for the HFES Annual Meeting (2005)
- Chair, Selection Committee for the CEDM-TG Best Student Paper Award for the HFES Annual Meeting (2003, 2004)
- Reviewer, HFES Student Member with Honors Award, appointed by the HFES Student Affairs Committee (2003)
- Ex-officio member, HFES Education and Training Committee (2006-2008)
- Activities Chair, UCF Student Chapter of HFES (2004)
- Student Representative to the HFES Student Affairs Committee (2001-2003)

HFES Mentoring & Outreach Activities

- Advisor, HF/E Women's Organization for Mentoring and Networking (HFE WOMAN) (2016-present) [<https://www.hfewoman.com/>]. Dedicated to connecting members of human factors and human factors-related disciplines to provide mentorship, networking, and opportunities

for professional and personal development for women and underrepresented population groups.

- Co-chair, Mentorship Subcommittee, appointed by the HFES Executive Council (2017-2018).
- Chair, HFES Task Force on Mentoring (2017-2018). Charged with identifying ways to integrate and promote the various HFES mentoring programs and activities.
- Founder and organizer, HFES Mentor-Mentee Luncheons (advisor 2018-present; host 2005-2017; sponsor 2005, 2006, 2014-2018). A series of mentoring sessions for students and early career professionals are held each year at the HFES Annual Meeting. Established in 2005, this event has provided mentoring opportunities for well over 1000 HFES members and has become an officially sponsored activity at the HFES Annual Meeting.
- Chair, Mentorship Subcommittee, appointed by the HFES Executive Council (2009).
- Co-Founder, National Ergonomics Month (NEM), a grassroots national-level initiative targeted at promoting awareness, understanding, and education of human factors and ergonomics through outreach at four fronts: media; government and corporate; school and community; and student. Since its inception in October 2003, NEM outreach activities by HFES members have reached over 22000 people and almost 7000 students.
 - Chair (2006-2008), Co-chair (2003-2005), National Ergonomics Month Committee, appointed by the HFES Executive Council.
 - Chair, Selection Committee for the NEM Best Action Plan Contest (2003-2008).
 - Shapiro, R. G. & Cuevas, H. M. (2008). National Ergonomics Month: A time for teaching, learning, networking, service, and fun!!! *Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society.
 - Shapiro, R. G. & Cuevas, H. M. (2003). *National Ergonomics Month: Promoting public awareness of human factors and ergonomics*. Proposal prepared for the HFES Executive Council.
- Founder and volunteer coordinator, HFES Student Roommate Matching Service (2000-2005). This service is aimed at making attendance at the HFES Annual Meeting more affordable for students, and has now been incorporated as an official part of the HFES Annual Meeting registration materials, managed by the Student Volunteer Co-Coordinator.
- Organizer, Aerospace Systems Technical Group “Lunch with the Experts,” student-focused mentoring program held at the HFES Annual Meeting (2013, 2015, 2016).
- Organizer and team captain, Human Factors / Ergonomics Professionals (HFEP) Team. The goal of this initiative was to spearhead a fundraising effort for the *Nike Women's Marathon: A Race to Benefit the Leukemia & Lymphoma Society*, held in San Francisco, CA, on October 22, 2006. This community outreach initiative was proposed as one of the HFES 50th Anniversary activities to celebrate 50 years of improving quality of life.
- Organized several mentoring-oriented activities at the Board of Certification in Professional Ergonomics (BCPE) Reception at the HFES Annual Meeting (2006, 2007).
- Organized a Special Series on Student Professional Development for the Student Views Column of the *HFES Bulletin* Vol. 47 (2004), based on presentations given during the Student Career and Professional Development Day at the HFES 47th Annual Meeting.
- Presented invited lecture on Student Professional Development to undergraduate and graduate students at various universities, including Florida International University (Mar 2006), Purdue University (Dec 2006), University of Central Florida (Feb 2007; Nov 2011; Feb 2013), and Embry-Riddle Aeronautical University – Daytona Beach (Feb 2010; Nov 2016).

American Psychological Association (APA)

- APA Division 21 Member-at-Large (elected) (2007)
- APA Division 21 Representative to the APA Early Career Psychologist Network (2007)
- Member, APA Presidential Task Force 'Centering on Mentoring' (2005-2006). This national-level initiative was aimed at connecting psychology graduate students and early career psychologists with more experienced senior psychologists in a range of mentoring relationships that cut across areas of scientific and professional interests. The Task Force created an *Introduction to Mentoring* guide for mentors and mentees as well as a *Mentoring Training* module to guide the mentor and mentee as they enter into and maintain a mentoring relationship.
- Interim Chair, APA Division 21 Membership Committee (2005-2006)
- New Professional Representative to the Executive Committee of APA Division 21 – Applied Experimental & Engineering Psychology (2005-2006)
- Student Member Representative to the Executive Committee of APA Division 21 – Applied Experimental & Engineering Psychology (2001-2004)
- American Psychological Association of Graduate Students (APAGS) Student Division Network Representative (2001-2004)
- Member, APA Division 21 Membership Growth Committee (2003-2004)
- Feature Editor, Student Spotlight Column, *Newsletter for the Division of Applied Experimental and Engineering Psychology, Division 21 of the American Psychological Association* (2004)
- President, UCF Chapter of the Psi Chi National Honor Society in Psychology (1996)

Society for Human Performance in Extreme Environments (HPEE)

- Member, Editorial Board, *Journal of Human Performance in Extreme Environments* (2012-present)
- Member, Board of Directors (elected) (2004-2007)
- Vice President, appointed by Board of Directors (2004-2007)
- Ex officio Chair, Communications and Public Outreach Committee (2004)
- Member, HPEE Organizational Committee (2003-2004)
- Reviewer for proposals submitted to the HPEE Annual Meeting (2004, 2006, 2007)

Miscellaneous

- Member, National Aeronautics and Space Administration (NASA) Human Exploration Research Opportunities (HERO) Panel (2021)
- Member, National Science Foundation: Cyber-Human Systems Panel (2018)
- Invited participant, National Science Foundation (NSF) Workshop on Technology, Racial Equity, and the Future of Work, University of Massachusetts - Amherst (April 2018)
- Member, National Aeronautics and Space Administration (NASA) Human Exploration Research Opportunities (HERO) Panel (2018)
- Invited participant, Army Research Laboratory Enhancing Assessment Workshop, Orlando, FL (November 2017)
- Member, National Aeronautics and Space Administration (NASA) Human Research Program (HRP) Human Factors Panel (2016)
- Member, External Advisory Board, Texts & Technology Ph.D. program, University of Central Florida (2013-2015)
- Associate Editor / Administrative Liaison, three-part Special Issue on "Exploring Cognitive Readiness in Complex Operational Environments: Advances in Theory and Practice," *Journal of Cognitive Engineering and Decision Making* (2010-2012)

- Associate Editor / Administrative Liaison, two-part Special Issue on "Improving Human-Robot Interaction in Complex Operational Environments: Translating Theory into Practice," *Journal of Cognitive Engineering and Decision Making* (2009-2011)
- Member, Editorial and Review Board for Schmorrow, D., Cohn, J. & Nicholson, D. (Eds.) (2009). *The PSI Handbook of Virtual Environments for Training and Education: Developments for the Military and Beyond*. Westport, CT: Praeger Security International.
- Consulting Editor, *Cognitive Technology* journal (2008)
- Ad Hoc Reviewer
 - Ashgate Publishing Ltd, Aviation & Human Factors (2013)
 - *Cognitive Technology* journal (2008-2009)
 - *Educational Psychology Review* journal (2015-2016)
 - *Ergonomics* journal (2012, 2014)
 - *Human Factors* journal (2007-2018)
 - *Human Performance* (2018)
 - *IEEE Transactions on Human-Machine Systems* (2021)
 - *IEEE Transactions on Systems, Man, and Cybernetics--Part C: Applications and Reviews* journal (2009-2010)
 - *Journal of Air Transport Management* (2020)
 - *International Journal of Aviation, Aeronautics, and Aerospace* (2017-2018)
 - *International Journal of Aerospace Psychology* (2020)
 - *International Journal of Online Graduate Education* (2018)
 - *Journal of Cognitive Engineering and Decision Making* (2010-2012, 2016-2017)
 - *Journal of Experimental Psychology: Applied* (2009-2011)
 - *Military Psychology* journal (2009-2011)
 - *Pragmatics & Cognition* journal (2007)

Conferences

- Cuevas, H. M. (2015, October). Chair, *Automation design and evaluation*. Lecture session presented at the 2015 Human Factors and Ergonomics Society International Annual Meeting, Los Angeles, CA, 26-30 October 2015.
- Cuevas, H. M. (2014, October). Chair, *Cognition and performance II*. Lecture session presented at the 2014 Human Factors and Ergonomics Society International Annual Meeting, Chicago, IL, 27-31 October 2014.
- Cuevas, H. M. (2013, September-October). Chair, *Teaching and learning human factors*. Lecture session presented at the 2013 Human Factors and Ergonomics Society International Annual Meeting, San Diego, CA, 30 September – 4 October 2013.
- Cuevas, H. M. (2008, September). Chair, *Space human factors*. Lecture session presented at the Human Factors and Ergonomics Society 52nd Annual Meeting, New York, NY, 22-26 September 2008.
- Cuevas, H. M. (2008, September). Co-chair, *Improving visual search and identification in complex systems*. Lecture session presented at the Human Factors and Ergonomics Society 52nd Annual Meeting, New York, NY, 22-26 September 2008.
- Cuevas, H. M. (2003, October). Co-chair, *Space*. Lecture session presented at the Human Factors and Ergonomics Society 47th Annual Meeting, Denver, CO, 13-17 October 2003.
- Cuevas, H. M. (2003, August). Chair, *Cutting-edge research by the next generation of experimental psychologists*. Paper session presented at the 111th Annual Convention of the American Psychological Association, Toronto, Canada, 7-10 August 2003.
- Cuevas, H. M. (2002, October). Chair, *Cutting-edge research by HFES student members*. Lecture session presented at the Human Factors and Ergonomics Society 46th Annual Meeting, Baltimore, MD, 30 September – 4 October, 2002.

- Cuevas, H. M. (2000, August). Chair, *Tomorrow's ergonomics*. Lecture session presented at the XIVth Triennial Congress of the International Ergonomics Association and the Human Factors and Ergonomics Society 44th Annual Meeting, San Diego, CA, 29 July – 4 August 2000.

Newsletters

Professional Development

1. Cuevas, H. M. (2014, July). Getting published! *HFES Bulletin*, 57 (7), 6-7.
2. Dopart, C. H., Kidwell, B. D., & Cuevas, H. M. (2014, March). Human factors considerations in commercial space operations. *HFES Bulletin*, 57 (3), 2-3.
3. Cuevas, H. M. (2012, August). Maximize your experience at HFES 2012. *HFES Bulletin*, 55 (8), 2-4.
4. Cuevas, H. M. (2009, July). Special issue on improving human-robot interaction. *HFES Bulletin*, 52 (7), 6-7.
5. Cuevas, H. M. (2005, Fall). IDIP Technical Program at HFES 2005. *Individual Differences in Performance News* (Newsletter for the Individual Differences in Performance Technical Group of the Human Factors and Ergonomics Society), 16 (1), 3-7.
6. Cuevas, H. M. (2005, Summer). HFES 2005 Training Technical Group Program. *HFES TTG Newsletter* (Newsletter for the Training Technical Group of the Human Factors and Ergonomics Society), 4-5.
7. Cuevas, H. M. (2005, February). Preparing the dissertation final defense (Special Series on Student Professional Development). *HFES Bulletin*, 48, (2), 4-5.
8. Cuevas, H. M. (2005, January). Preparing the dissertation proposal (Special Series on Student Professional Development). *HFES Bulletin*, 48, (1), 5.
9. Cuevas, H. M. (2005, Winter). Winner of the CEDM-TG best student paper award. *Cognitia* (Newsletter for the Cognitive Engineering and Decision Making Technical Group of the Human Factors and Ergonomics Society), 9 (1), 9.
10. Cuevas, H. M. (2004, December). Is a poster right for you? *HFES Bulletin*, 47 (12), 3-4.
11. Cuevas, H. M. (2004). Student diaries: Conducting individual differences research in a one-size-fits-all world. *Individual Differences in Performance News* (Newsletter for the Individual Differences in Performance Technical Group of the Human Factors and Ergonomics Society), 15 (1), 4-5.
12. Cuevas, H. M. (2004, Summer). Spotlight on our student members: CEDM-TG best student paper award. *Cognitia* (Newsletter for the Cognitive Engineering and Decision Making Technical Group of the Human Factors and Ergonomics Society), 8 (1), 9-10.
13. Cuevas, H. M. (2004, March). 7 habits of highly effective HFES students: Making your HFES membership work for you (Special Series on Student Professional Development). *HFES Bulletin*, 47 (3), 6.
14. Cuevas, H. M. & Hilscher, M. (2003, Spring). Spotlight on educating our future professionals: Broadening horizons with creative internship opportunities. *Newsletter for the Division of Applied Experimental and Engineering Psychology, Division 21 of the American Psychological Association*, 28 (2), 4.
15. Cuevas, H. M. (2003, Winter). Spotlight on educating our future professionals: Human factors psychology program at Embry-Riddle Aeronautical University. *Newsletter for the Division of Applied Experimental and Engineering Psychology, Division 21 of the American Psychological Association*, 28 (1), 6-8.
16. Cuevas, H. M. (2003, Winter). Spotlight on educating our future professionals: Why students choose human factors/engineering psychology as their field of study. *Newsletter for the Division of Applied Experimental and Engineering Psychology, Division 21 of the American Psychological Association*, 28 (1), 3-6.

17. Cuevas, H. M. (2002, Spring). Spotlight on educating our future professionals: Westpoint undergraduate engineering psychology program. *Newsletter for the Division of Applied Experimental and Engineering Psychology, Division 21 of the American Psychological Association*, 27(2), 6-8.
18. Cuevas, H. M. (2002, Winter). Spotlight on educating our future professionals: Undergraduate programs in human factors/engineering psychology. *Newsletter for the Division of Applied Experimental and Engineering Psychology, Division 21 of the American Psychological Association*, 27(1), 3.

Mentoring & Outreach

19. Cuevas, H. M. (2017, July). Reserve your seat for the 2017 mentor-mentee luncheons. *HFES Bulletin*, 60 (7).
20. Cuevas, H. M. (2016, July). Reserve your seat for the 2016 mentor-mentee luncheons. *HFES Bulletin*, 59 (7).
21. Cuevas, H. M. (2015, August). G.A.M.E.S.: Global Awareness & Mentoring of Ergonomics in Society. *HFES Bulletin*, 58 (8), 3-4.
22. Cuevas, H. M. (2015, July). Reserve your seat for the 2015 mentor-mentee luncheons. *HFES Bulletin*, 58 (7), 5.
23. Cuevas, H. M. (2014, July). Reserve your seat for the 2014 mentor-mentee luncheons. *HFES Bulletin*, 57 (7), 6.
24. Cuevas, H. M. (2013, July). Reserve your seat for the 2013 mentor-mentee luncheons. *HFES Bulletin*, 56 (7), 4-5.
25. Cuevas, H. M. (2012, July). Reserve your seat for the 2012 mentor-mentee luncheons. *HFES Bulletin*, 55 (7), 6-7.
26. Cuevas, H. M. (2011, August). Reserve your seat for the 2011 mentor-mentee luncheons. *HFES Bulletin*, 54 (8), 5-6.
27. Cuevas, H. M. (2010, June). Mentor-mentee luncheons scheduled. *HFES Bulletin*, 53 (6), 3.
28. Cuevas, H. M. (2009, May-June). Mentor-mentee luncheons. *HFES Bulletin*, 52 (5-6), 4.
29. Cuevas, H. M. (2008, June). Mentor-mentee luncheons. *HFES Bulletin*, 51 (6), 3.
30. Cuevas, H. M. (2007, September). Annual meeting boasts mentoring and networking opportunities. *HFES Bulletin*, 50 (9), 6.
31. Cuevas, H. M. (2007, February). HFEP Team races in the Nike Marathon. *HFES Bulletin*, 50 (2), 4.
32. Cuevas, H. M. & Andre, A. (2006, August). Special mentoring program at HFES 2006. *HFES Bulletin*, 49 (8), 3.
33. Cuevas, H. M. & Peacock, B. (2006, June-July). Just do it! Walk, run, or sponsor the Nike Women's Marathon. *HFES Bulletin*, 49 (6-7), 3.
34. Cuevas, H. M. (2005, August). Attend new brown bag sessions. *HFES Bulletin*, 48 (8), 3-4.

National Ergonomics Month

35. Cuevas, H. M. (2008, June). Get ready for NEM 2008! *HFES Bulletin*, 51 (6), 4.
36. Cuevas, H. M. (2007, June). NEM wants you! *HFES Bulletin*, 50 (6), 7.
37. Cuevas, H. M. (2006, December). NEM 2006: Awards and special recognition. *HFES Bulletin*, 49 (12) 5.
38. Cuevas, H. M. (2006, August). Celebrate NEM 2006 at the HFES Annual Meeting! *HFES Bulletin*, 49 (8), 5.
39. Cuevas, H. M. (2006, May). NEM wants you! *HFES Bulletin*, 49 (5), 5.
40. Cuevas, H. M. (2005, November). National Ergonomics Month – Awards and special recognition. *HFES Bulletin*, 48 (11), 5.
41. Cuevas, H. M. (2005, October). National Ergonomics Month is here! *HFES Bulletin*, 48 (10), 3.

42. Cuevas, H. M. & Shapiro, R. G. (2005, August). NEM session to feature outreach tips. *HFES Bulletin*, 48 (8), 4.
43. Cuevas, H. M. (2005, June-July). 2005 NEM Best Action Plan Contest. *HFES Bulletin*, 48 (6-7), 6.
44. Cuevas, H. M., Young, K. R., & Shapiro, R. G. (2004, August). Get ready for NEM 2004! *HFES Bulletin*, 47 (8), 5-6.
45. Cuevas, H. M. (2004, April). National Ergonomics Month: Promoting public awareness of human factors and ergonomics. Best Action Plan Contest (Special Series on Student Professional Development). *HFES Bulletin*, 47 (4), 3.
46. Cuevas, H. M. & Shapiro, R. G. (2004, January). National Ergonomics Month 2003: In review. *HFES Bulletin*, 47 (1), 4.
47. Young, K. R., Shapiro, R. G., & Cuevas, H. M. (2003, October). National Ergonomics Month is here! *HFES Bulletin*, 46 (10), 3.
48. Young, K. R., Shapiro, R. G., & Cuevas, H. M. (2003, September). NEM: What you can do to participate. *HFES Bulletin*, 46 (9), 6.
49. Cuevas, H. M. (2003, August). National Ergonomics Month: Student focus. *HFES Bulletin*, 46 (8), 7.
50. Cuevas, H. M., Shapiro, R. G., & Young, K. R. (2003, August). National Ergonomics Month coming soon! *HFES Bulletin*, 46 (8), 1.

RECOGNITIONS / AWARDS

- HFE WOMAN Mentor of the Year Award, presented at the 2019 HFES International Annual Meeting (awarded 10/2019). This annual award recognizes the outstanding contributions made by an individual (man or woman) in the mentorship and professional advancement of women within the Human Factors community.
- Oliver Keith Hansen Outreach Award, presented at the 2015 HFES International Annual Meeting (awarded 10/2015). This annual award recognizes members and nonmembers who engage in significant activities that broaden awareness of the existence of the human factors/ergonomics profession and the benefits it brings to humankind.
- Certificate of Appreciation presented at the 2014 HFES International Annual Meeting in recognition of the 10th anniversary of the HFES Mentor-Mentee Luncheons (10/2014).
- Featured in UCF Alumni Spotlight article: "Alumna pulls from UCF experiences when helping students" (posted 28 January 2013 at <http://news.cos.ucf.edu/?p=6120>) and "UCF alum gives back by passing onto next generation" (posted 30 January 2013 <http://today.ucf.edu/ucf-alum-gives-back-by-passing-onto-next-generation/>).
- UCF Order of Pegasus Student Recognition Program – Inducted into the Class of 2004 (awarded 2/2004). This selective program recognizes exemplary performance in academic achievement, professional or community service, leadership, and publication or research experiences. Because of the breadth of accomplishments required for this award, it is the most prestigious and significant student award that can be attained at the University.
- Federation of American Scientists (FAS) Student Visions Essay Contest – Finalist (awarded 10/2003); Invited to present essay at a Congressional meeting held in Washington, DC, to introduce legislation for the Digital Opportunity Investment Trust.
- UCF Office of Graduate Studies Travel Fellowship (awarded 10/2003, 9/2004)
- HFES Student Member with Honors (awarded 10/2002)
- Ford Foundation Doctoral Fellowships for Minorities Program – Honorable Mention (UCF) (awarded 4/2002)
- Delores A. Auzenne Fellowship (UCF) (awarded 8/1998, 8/1999, 8/2000, 8/2001)
- UCF Summer Mentoring Fellowship (awarded 5/1999)
- UCF Foundation Minority Graduate Fellowship (awarded 8/1998)

- Multicultural Student Certificate of Achievement for Academic Excellence (UCF) (awarded 3/1997)
- UCF Achievement Award Scholarship (awarded 8/1996)
- APA Minority Undergraduate Student of Excellence (UCF) (awarded 8/1996)
- President's Honor Roll (UCF) (awarded Fall/1995; Spring/1996)
- Minority Student Certificate of Achievement for Academic Excellence (UCF) (awarded 3/1995)
- MDCC Outstanding Academic Achievement (awarded 12/1994)
- Dean's List (MDCC) (awarded Fall/1994)
- William L. McKnight Scholarship (MDCC) (awarded 8/1993)