

Marcela Chiorescu

Georgia College & State University

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Curriculum Vitae • August 2021

EDUCATION

PhD	Florida Atlantic University, Mathematics <ul style="list-style-type: none">• Dissertation: “Minimal zero-dimensional extensions”• Advisor: Professor Fred Richman	August 2009
MS	Florida Atlantic University, Mathematics <ul style="list-style-type: none">• Non-thesis	May 2005
MS	A.I. Cuza University, Partial Differential Equations and Applications <ul style="list-style-type: none">• Thesis: “Interior methods for constrained optimization”• Advisor: Professor Viorel Arnautu	June 2002
BS	A.I. Cuza University, Mathematics <ul style="list-style-type: none">• Thesis: “Planar and space inversion”• Advisor: Professor Vasile Crucianu	June 1998

ACADEMIC POSITIONS

Professor of Mathematics, Georgia College (August 2021-present)

Associate Professor of Mathematics, Georgia College (August 2016 – May 2021)

Assistant Professor of Mathematics, Georgia College (August 2011 - May 2016)

Lecturer of Mathematics, Georgia College (August 2009 - May 2011)

TEACHING EXPERIENCE AT GEORGIA COLLEGE

MATH 1001, Quantitative Skills & Reason

MATH 1101, Introduction to Mathematical Modeling

MATH 1111, College Algebra

MATH 1401, Elementary Statistics

MATH 1113, Precalculus

MATH 1261, Calculus I

MATH 1262, Calculus II

MATH 2262, Calculus III

MATH 2150, Linear Algebra

MATH 3030, Foundations of Mathematics

MATH 4081, Abstract Algebra I

MATH 4340, Differential Equations

MATH 4510, Geometry

MATH 4940, Independent Study

MATH 4950, Special Topics: Women and Mathematics

MATH 4990, Senior Project

MATH 4999, Undergraduate Research

CURRICULUM DEVELOPMENT

- *Precalculus*: Redesigned course to incorporate open education resources, inquiry based learning activities, collaborative learning and reflective writing activities. (<https://libguides.gcsu.edu/Precalculus/>)
- *Women and Mathematics*: I developed a summer online special topics course focused on the study of the mathematical journey of seven women mathematicians from the 4th throughout the 20th centuries (Hypatia, Agnesi, Germain, Somerville, Lovelace, Kovalevskaya and Noether).
- *Introduction to Research in Mathematics and Senior Project*: I was part of the team that redesigned the senior capstone experience for the Department of Mathematics. The math majors now need to complete a one-year research project culminating with writing a paper and presenting their findings at the Capstone Day organized by the Department of Mathematics.
- *College Algebra*: I played a leading role in the design and implementation of a new College Algebra course based on a student-centered pedagogy and the latest technology, the Emporium Model. The goal of this project is to increase student success in entry-level mathematics, and the results after eight semesters from the launching are very promising.

ACADEMIC AWARDS/GRANTS

Chiorescu, M., Epstein, R., Affordable Learning Georgia Textbook Transformation Grants (University System of Georgia), Award Category: “Gateways to Completion”. Funded, \$10,800 (2019-2020)

Nominated for the 2019-20 College of Arts & Sciences Scholarship of Teaching and Learning (SoTL) Award

Georgia College Scholarship of Teaching and Learning Fellow (2017-2018)

Awarded Professional Leave in Fall 2017

Open Education Resources (OER) Research Fellow, \$5,000 (2015-2016) (Awarded by the Open Education Group to do research on the impact of OER)

Chiorescu, M., Harris, J., Affordable Learning Georgia Textbook Transformation Grants (University System of Georgia), Award Category: No-cost-to-students Learning Materials, Funded, \$10,800 (2014-2015)

Chiorescu, M., Mohr, D., Samples, B., STEM Mini-Grant, *Enhancing Student Learning Experience through Integration of Maple*, Funded, \$3,000 (2014-2015) (Principal Investigator)

Chiorescu, M., *Paws-on Mathematics*, ENGAGE Apprentice Workshops award, \$750 (2014-2015)

Governor’s Teaching Fellow, Summer 2013 (Awarded every summer to only 12 teachers from all colleges and universities across the state of Georgia.)

Brown, J., Chiorescu, M., Mohr, D. G., Westbrook, S. K., Grant, URACE Planning Grant. Mathematics Department, Funded, \$5,000.00. (2013)

Buttitta, L., Chiorescu, M., Haslam J., Gleason, M., Huffman, L., Lisse, C., Richards, R., *Best Practices in Supplemental Instruction in the STEM Disciplines*. Teaching Circle Fellowship (2012-2013)

Cook, C., Faircloth, S., Powell, C., Sirmans, J., Elliott-Gower, S., Chiorescu, M., Mumma, B., Kaufman, G., Zehnder, C., Hobbs, W., Speelman, E., Grant, *Facilitating Learning through Engaged Discussion*. Teaching Circle Fellowship Grant, Funded, \$400.00. (2011-2012)

Florida Atlantic University, Graduate Fellowship for Academic Excellence, \$5,000 (2008-2009) (Awarded annually to only 7 graduate students from FAU.)

Florida Atlantic University, Graduate Teaching Fellowship (2003-2009)

“A. I. Cuza” University, Merit Scholarship (2000-2002)

PUBLICATIONS (Peer-reviewed)

1. Chiorescu, M. Engaging Students in Reflective Thinking in Precalculus. *Proceedings of the 23rd Annual Conference on Research in Undergraduate Mathematics Education*, Boston University, February 2020 (<http://sigmaa.maa.org/rume/RUME23.pdf>)
2. Chiorescu, M. Engaging with Primary Sources in a Mathematics for the Liberal Arts Course. *Proceedings of the Eighth European Summer University on History and Epistemology in mathematics Education* (ESU-8) (Skriptserie 2019, nr 11). Oslo: Oslo Metropolitan University (ISBN 978-82-8364-211-7 (printed version), ISBN 978-82-8364-212-4 (online version))
3. Chiorescu, M. (2017). Exploring Open Educational Resources for College Algebra. *The International Review of Research in Open and Distributed Learning*, 2017, 18(4). DOI: <https://doi.org/10.19173/irrodl.v18i4.3003> (9 journal citations)
4. Brown, R., Chiorescu, M. and Mohr, D. (2017) Building Capacity for Undergraduate Research in Mathematics: A Case Study at Georgia College. *Problems, Resources, and Issues in Mathematics Undergraduate Studies*, 2017, 27(10): 926-941. (<https://doi.org/10.1080/10511970.2016.1266066>) (one journal citation)
5. Chiorescu, M. and Richman, F., Minimal Zero-Dimensional Extensions of Rings of Dimension Greater than One, *Communications in Algebra*, 40 (2012), 3792-3800, MR2982899 (one journal citation)
6. Chiorescu, M., Minimal Zero-Dimensional Extensions, *J. Algebra* 322 (2009), no. 1, 259-269, MR2526389

PUBLICATIONS (Non Peer-reviewed)

1. Chiorescu, M., Cazacu, R., The Impact of Redesigned College Algebra. (2017) *Proceeding of the 28th Annual International Conference on Technology in Collegiate Mathematics*. (<http://archives.math.utk.edu/ICTCM/i/28/A042.html>)

In the News

Enhancing the student Learning Experience with Maple, User Case Study published online by Maplesoft: <http://www.maplesoft.com/company/casestudies/Stories/georgia.aspx> (2016)

Chiorescu, M. and Harris, J., "MATH 1111 - College Algebra (Open Course)" (2015). *Mathematics Ancillary Materials*: <https://oer.galileo.usg.edu/mathematics-ancillary/1/>

PRESENTATIONS

1. Chiorescu, M., *Engaging Students in Reflective Thinking in Precalculus*, Conference on Research in Undergraduate Mathematics Education, Boston University, February 27-29, 2020
2. Chiorescu, M., *Engaging Students in Reflective Thinking*, MAA-SE Conference, Lee University, Cleveland, TN, March 7-9, 2019
3. Chiorescu, M., *Creating a Coloring Book Inspired by the Golden Ratio*, MAA-SE Conference, March 23-24, 2018, Clemson University, Clemson, SC (Link to the book <https://works.bepress.com/marcela-chiorescu/12/>)
4. Chiorescu, M., *Engaging with Primary Sources in a Mathematics for the Liberal Arts Course*, MAA-SE Conference, March 23-24, 2018, Clemson University, Clemson, SC
5. Chiorescu, M., *Engaging with Primary Sources in a Mathematics for the Liberal Arts Course*, 8th European Summer University on the History and Epistemology in Mathematics Education, Oslo, Norway, July 24, 2018
6. Hilton, J., Chiorescu, M., Hendricks, C., Kimmons, R., Lawrence, C., Ozdemir, O., Weng, T., Recent Finding from the OER Research Fellows, Open Education 2016, November 2-4, Richmond, VA (panel discussion, 50 minutes)
7. Chiorescu, M., Cazacu, R., *The Impact of Redesigned College Algebra*, the 28th Annual International Conference on Technology in Collegiate Mathematics, Atlanta, GA, March 10-13, 2016
8. Chiorescu, M., *The Impact of Redesigned College Algebra*, the 28th Annual International Conference on Technology in Collegiate Mathematics, Atlanta, GA, March 10-13, 2016
9. Chiorescu, M., *Exploring Affordable Learning Resources for College Algebra*, the 28th Annual International Conference on Technology in Collegiate Mathematics, Atlanta, GA, March 10-13, 2016
10. Chiorescu, M., Samples, B., Mohr, D *Enhancing Student Learning Experience through Maple*, MathFest 2015, Washington D.C., August 8, 2015
11. Chiorescu, M., Samples, B., Mohr, D., *Enhancing Student Learning Experience through Integration of Maple*, 2015 STEM Symposium Georgia College, March 11, 2015
12. Brown, R., Chiorescu, M., Mohr, D., *Building Capacity for a Research Rich Curriculum in Mathematics at Georgia College*, MAA MathFest 2014, Portland Oregon, August 7-9, 2014
13. Cazacu, R., Chiorescu, M., *A Personalized Solution for Increased Student Success*, MAA Southeastern Section Spring 2014, Tennessee Tech University, March 14-15, 2014
14. Chiorescu, M., *New Teaching Ideas*, Project NExT-SE, MAA Southeastern Section Spring 2014, March 13, 2014
15. Brown, R., Chiorescu, M., Mohr, D., Westbrook, S.K., *Institutionalizing Undergraduate Research in Mathematics*, URaCE Fall Symposium, Georgia College, November 22, 2013

16. Chiorescu, M., *Online Teaching and the Liberal Arts*, CELTS Lunch and Learn, Georgia College (October 21, 2013)
17. Cazacu, R., Chiorescu, M., *A Personalized Solution for Increased Student Success*, International Conference on Technology in Collegiate Mathematics, Westin Copley Place Hotel, Boston, MA, March 21-24, 2013
18. Buttitta, L., Chiorescu, M., Haslam J., Huffman, L., Lisse, C., Richards, R., *The Impact of Supplemental Instruction on Teaching and Learning*, 2nd Annual Georgia Scholarship of STEM Teaching & Learning Conference on Mar 8, 2013
19. Chiorescu, M., *College Algebra Emporium Model Undergraduate Learning Assistants: Instructor and Student Support for a New Redesigned Course*, 2012 STEM Symposium Georgia College, March 14, 2012
20. Chiorescu, M., *Minimal Zero-Dimensional Extensions*, MAA- Southeastern Section, Clayton State University, Morrow, Georgia, March 9-10, 2012
21. Chiorescu, M., *Minimal Zero-Dimensional Extensions*, 2011 Joint Mathematics Meetings, New Orleans, Louisiana, January 6-9, 2011
22. Chiorescu, M., *Minimal Zero-Dimensional Extensions*, Southern Regional Algebra Conference, University of Louisiana at Lafayette, Lafayette, Louisiana, October 2010
23. Chiorescu, M., *Minimal Zero-Dimensional Extensions*, Southern Regional Algebra Conference, University of Colorado at Colorado Springs, September 2008
24. Chiorescu, M., *Minimal Zero-Dimensional Algebras*, Conference on Abelian Groups and on Constructive Mathematics, Florida Atlantic University, May 2008
25. Chiorescu, M., *Minimal Zero-Dimensional Extensions of One-Dimensional Integral Domains of Finite Character*, Southern Regional Algebra Conference, University of Louisiana at Lafayette, September 2007
26. Chiorescu, M., *Minimal Zero-Dimensional Extensions of Principal Ideal Domains*, International Conference on Abelian Groups and Module over Commutative Rings, University of Connecticut, June 2007 (30 min. invited talk)

Organized Special Sessions at Conferences

Enhancing Personalized Learning in Mathematics through Non-Disposable Assignments, MAA-SE Conference, Clemson University, Clemson, SC, March 23-24, 2018

Supervised Capstone Projects

Hanna Kagele, *Sophie Germain, The Princess of Mathematics and Fermat's Last Theorem* (Spring 2018 - Fall 2018)

Kelsey Windham, *Unique Visualizations: Exploring Symmetries with Complex-Valued Functions and Group Theory* (Spring 2016 - Fall 2016)

Kirsten Morris, *On the Rank of Kronecker Sum of Similar Matrices*, (Spring 2015-Fall 2015)

Lindsay Yates, *Linear Algebra of Pascal Matrices*, (Spring 2014-Fall 2014)

Rujeko Chinomona, *Equilibrium, Stability, and Dynamics of Magnetocapillary Swimmers*, (Fall 2013)

Supervised Student Presentations

Windham, K., *Exploring Symmetries with Complex-valued Functions and Group Theory*, MAA-SE Conference, Mercer University, Macon, GA, March 9-11, 2017

Windham, K., *Creating Art with Mathematical Symmetries*, The 12th Annual UNCG Regional Mathematics and Statistics Conference, The University of North Carolina at Greensboro, November 11-12, 2016

Windham, K., *Creating Art with Mathematical Symmetries*, Georgia Undergraduate Research Conference (GURC) 2016, Georgia College, November 4-5, 2016

Morris, K., *On the Rank of a Kronecker Sum of Similar Matrices*, 2016 Joint Mathematics Meetings, January 6-9, 2016, Seattle, WA

Baum, E., Morris, K., *Engaging Students in Mathematics through AWM at Georgia College*, 2015 Math Fest, Washington D.C., August 6, 2015

SERVICE

Service to the University

- Facilitator for the GCReads Micro-seminar, *How to do what you love* (August 10, 2020)
- Member of the Search Committee for the Associate Provost for Academic Affairs and Director of The Graduate School (November 2019-present)
- Member of G2C Steering Committee (February 2018-present)
- Member of the Faculty and Staff International Development Grants Committee (Fall 2016 -Spring 2017)
- Member of the Faculty Research Grant Committee (Fall 2013 - Spring 2017)
- Secretary of the RPIPC (August 2018-April 2019)
- Member of GEC (October 2018-present)
- Member of the Governor Teaching Fellows Selection Committee (Spring 2019)

Service to the College of Arts & Sciences

- Chair of Scoring Committee for the Annual Georgia College Regional Science and Engineering Fair (August 2016 -present)
- Member of the Georgia College Science Fair Advisory Board (August 2016 -present)
- Member of the Five-year Academic Administrator's Review Team (Spring 2018)

Service to the Department of Mathematics

- Member of the Tenure and Promotion Committee (Fall 2016 – Spring 2020)
- Member of the Curriculum Committee (Fall 2019)
- Chair of the Tenure and Promotion Committee (Fall 2017-Spring 2018)
- Chair of the search committee for an assistant professor position (Spring 2017)
- MATH 1111/1113 Course Coordinator (Spring 2017-present)
- MATH 1101 Course Coordinator (Fall 2017)

- Faculty sponsor for GC AWM Student Chapter (March 14, 2014 – Spring 2019)

Service to the Profession

- Reviewer of the Round Sixteen Textbook Transformation Grants awarded by Affordable Learning Georgia (January 2020)
- Reviewer of math abstracts for the Georgia Undergraduate Research Conference (GURC) 2016, Georgia College, November 4-5, 2016
- Reviewer of math abstracts for the Georgia Undergraduate Research Conference (GURC) 2017, Georgia College, October 27-28
- Reviewer of math abstracts for the 2018 Georgia Undergraduate Research Conference (GURC), University of North Georgia, Gainesville, November 2-3
- Reviewer of math abstracts for the 2019 Georgia Undergraduate Research Conference (GURC), November 1-2, University of North Georgia

Service to the Community

- 2019 Social Justice Dialogue Series (SJDS) co-hosted along with the community at the Collings P. Lee Center a community dinner and public viewing of the featured film, *Hidden Figures* on April 10, 2019. I was a co-facilitator for the post-viewing discussion of the film.
- I organized a math activity, *Building a Menger Sponge*, for the kids participating in the 42nd annual Georgia College Regional Science & Engineering Fair on Friday, February 1, 2019.
- Organizer, Paws-on Mathematics: Math Enrichment Activities for Georgia College Early College (2015-2016)
- Supporting Manager, Math Kangaroo Center at Georgia College (2013-2016)
- Organizer and Facilitator, Math Camp at Georgia College (June 2-6, 2014) (Link to the blog I wrote about it: <http://gcmathcamp2014.blogspot.com/2014/>)

Membership in Professional Organizations

Member, Kappa Mu Epsilon, KME. (April 2010 - Present)

Member, Mathematical Association of America, MAA (2012-present)

Member, Association for Women in Mathematics, AWM (2014-2019)

Member, The International study group on the relations between the history and pedagogy of mathematics (2016-present)

Member, SIGMAA on RUME (November 2019-present)

Member, SIGMAA-Arts (November 2018-present)

Member, Council on Undergraduate Research (CUR) (January 2019-present)