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March 19, 2015

Cleveland State Taps into Faculty and Campus Needs

Barbara Loomis, Cleveland State University
Theresa M. Nawalaniec, Cleveland State University
Marsha Miles, Cleveland State University



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Cleveland State Taps into Faculty and Campus Needs

Barbara Loomis Cleveland State University, b.i.loomis@csuohio.edu

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Cleveland State Taps into Faculty and Campus Needs

Barbara Loomis, Project Coordinator

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Theresa Nawalaniec, Sciences & Engineering Librarian





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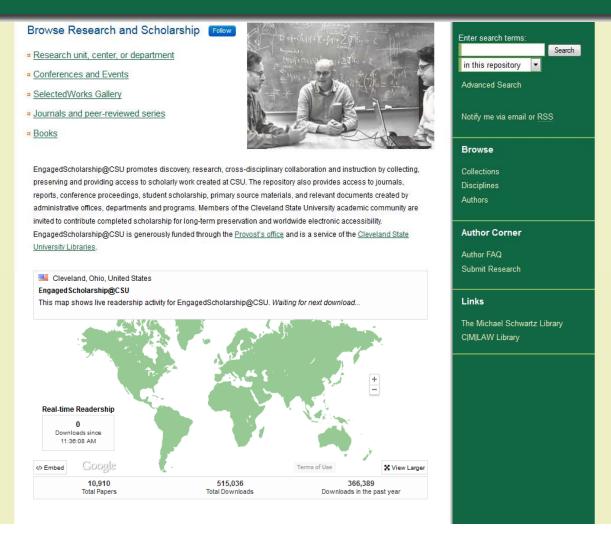
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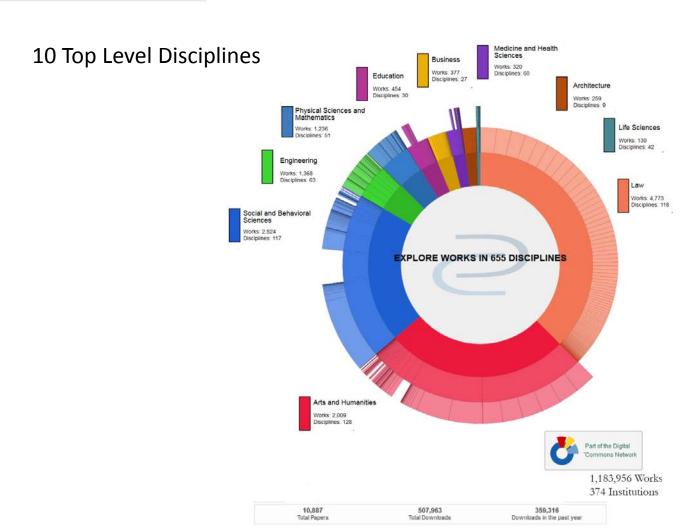
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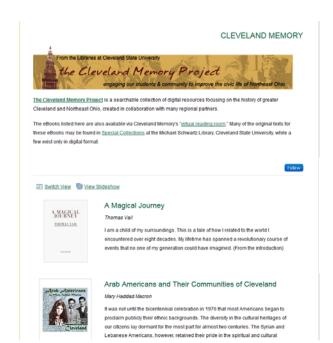


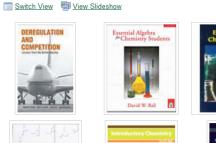
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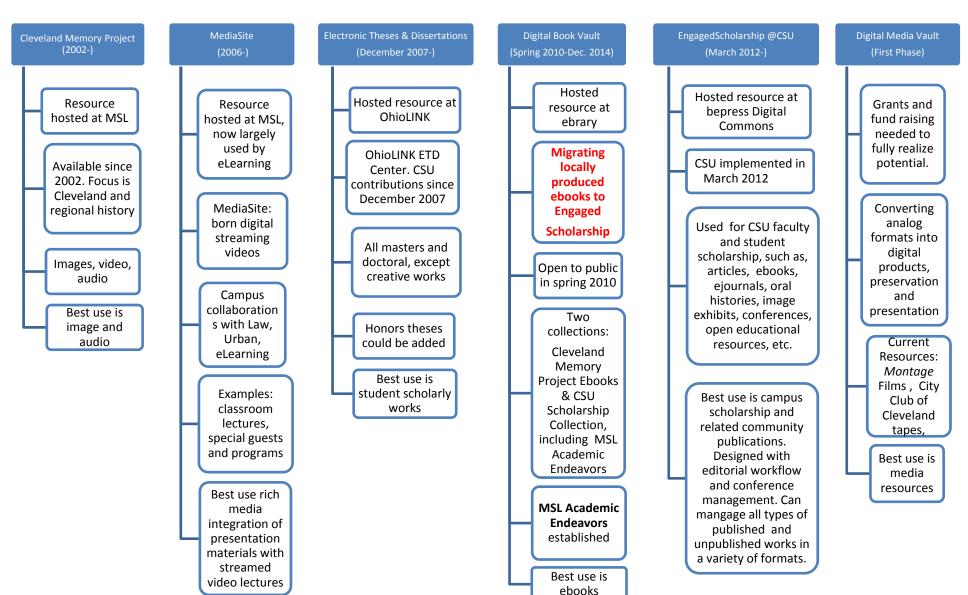


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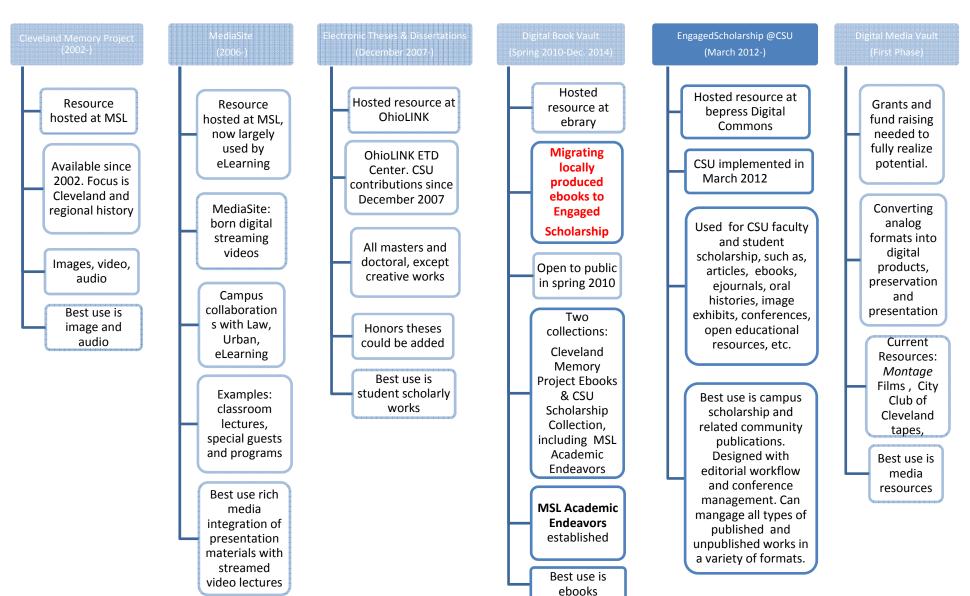


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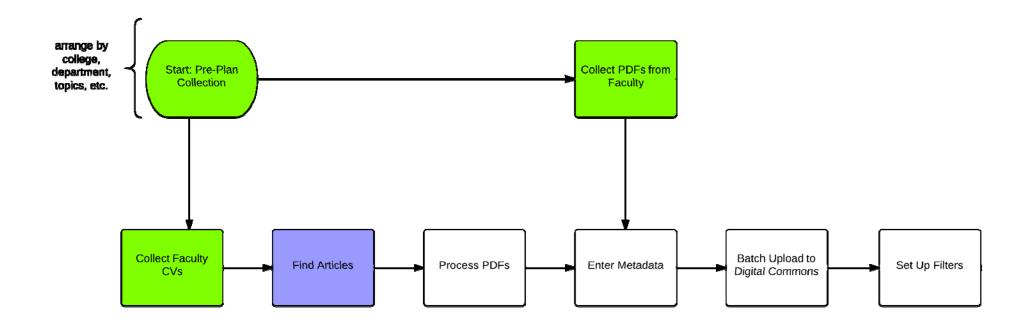


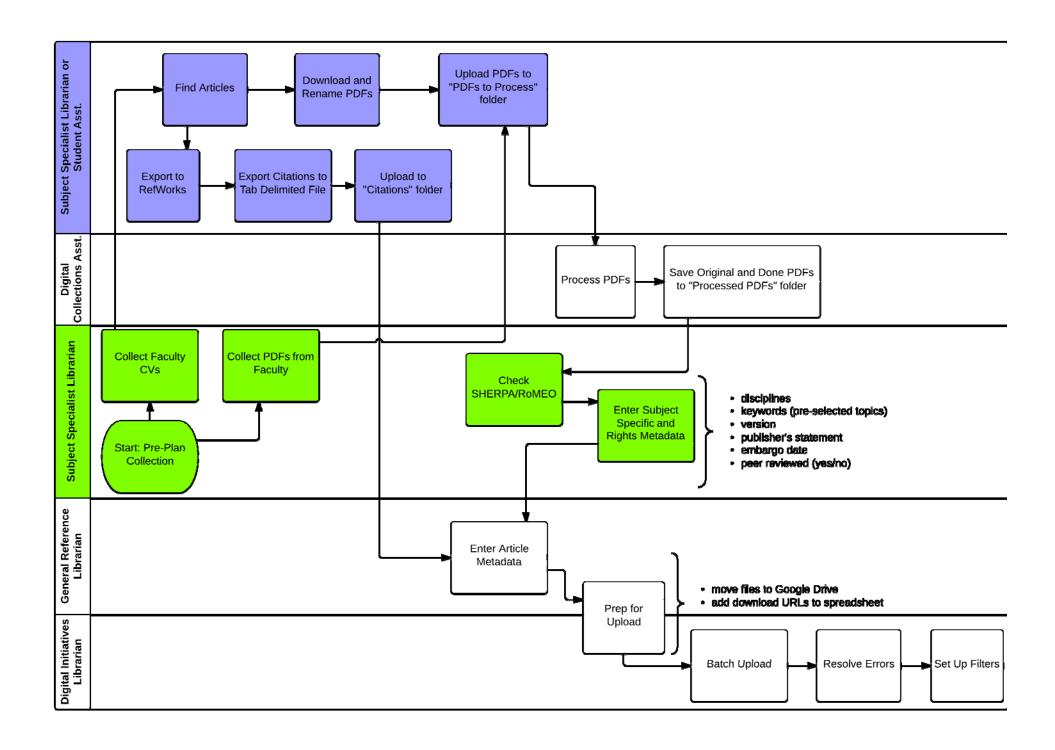






Workflow Overview





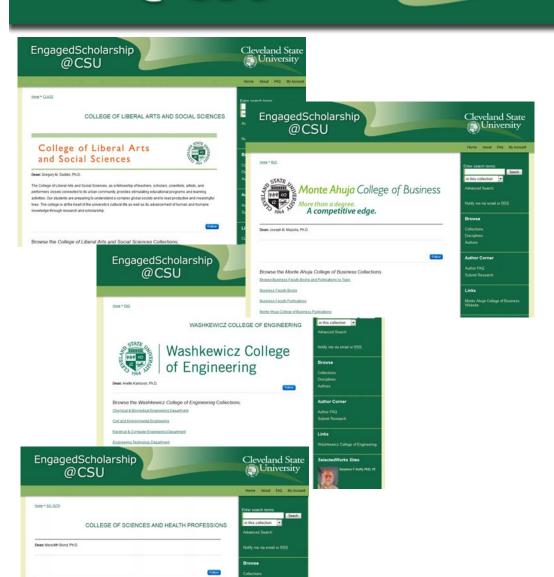


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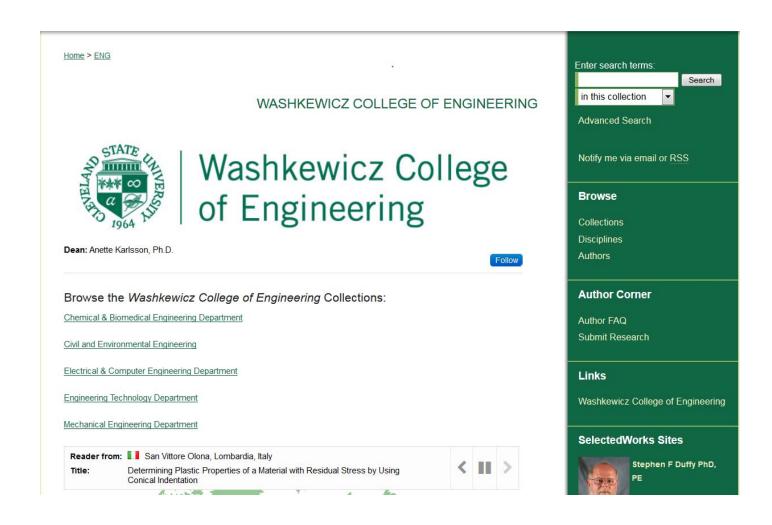


Cultural Encounters, Conflicts, and Resolutions











Conference Proceedings

Computational Investigation of Novel Tip Leakage Mitigation Methods for High Pressure
 Turbine Blades (with Abhinav Gupta and Vikram Shyam), 50th AIAA/ASME/SAE/ASEE Joint
 Propulsion Conference (2014)

☐ Link CFD Simulations of Unsteady Wakes on a Highly Loaded Low Pressure Turbine Airfoil
(L1A) (with Samuel Vinci, Olga Kartuzova, and Ralph J. Volino), ASME Turbo Expo 2012 (2012)

This paper presents computational study for a large diameter (216 mm) and small space ratios...

Link LES Flow Control Simulations for Highly Loaded Low Pressure Turbine Airfoil (L1A) Using Pulsed Vortex Generator Jets (with Olga Kartuzova, Daniel J. Doucet, and Ralph J. Volino), ASME Turbo Expo 2010: Power for Land, Sea, and Air (2010)

Seven different cases were examined experimentally and computationally to study LPT flow control using pulsed...

☐ Link Experimental and Computational Investigations of Low-Pressure Turbine Separation

Control Using Vortex Generator Jets (with Ralph J. Volino and Olga Kartuzova), Proceedings

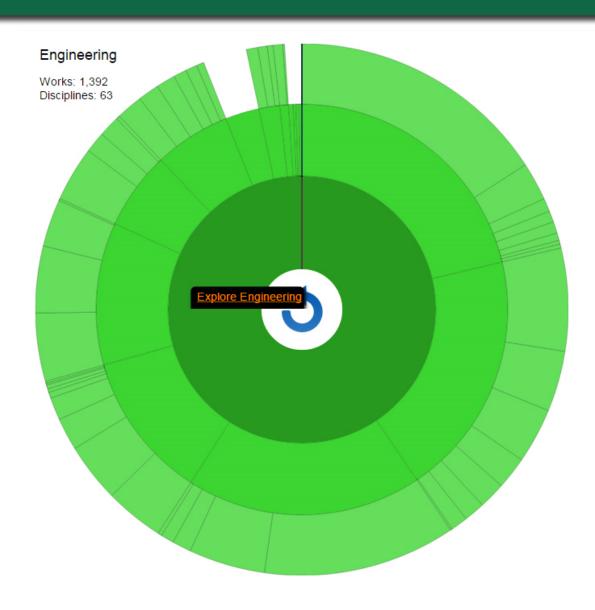
of ASME Turbo Expo 2009: Power for Land, Sea, and Air (2009)

Boundary layer separation control has been studied using vortex generator jets (VGJs) on a very...

Link LES and URANS Computational Investigations of LPT Blade (L1A) Separation Control using Vortex Generator Jets (with Olga Kartuzova and R. J. Volino), Turbulence, Heat and Mass Transfer 6. Proceedings of the Sixth International Symposium On Turbulence, Heat and Mass Transfer (2009)

This paper describes active flow control utilizing steady VGJs both experimentally and computationally for the...



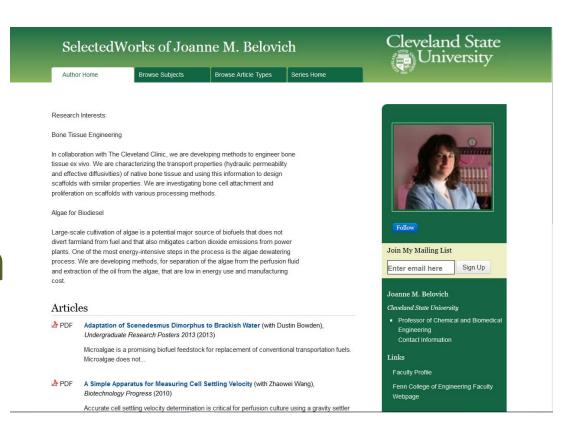








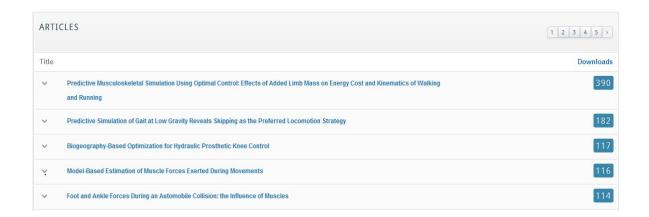
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Antonie J. (Ton) van den Bogert Parker-Hannifin Endowed Chair in Human Motion and Control Department of Mechanical Engineering Cleveland State University





Sent: Sun 2/15/2015 6:57

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rom: DC reports <noreply@bepress.com>

o: Theresa M Nawalaniec

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Anette Karlsson, PhD Dean of Engineering





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Sent: Wednesday, January 28, 2015 2:05 PM

To: Barbara I Loomis

Subject: Activity Update from the Engineering Commons

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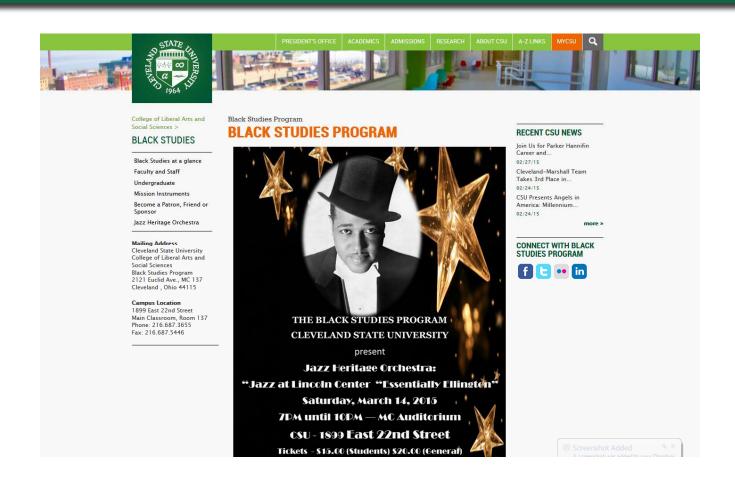
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JAZZ HERITAGE ORCHESTRA





Black Studies Program CSU website



Jazz Heritage Orchestra at CSU

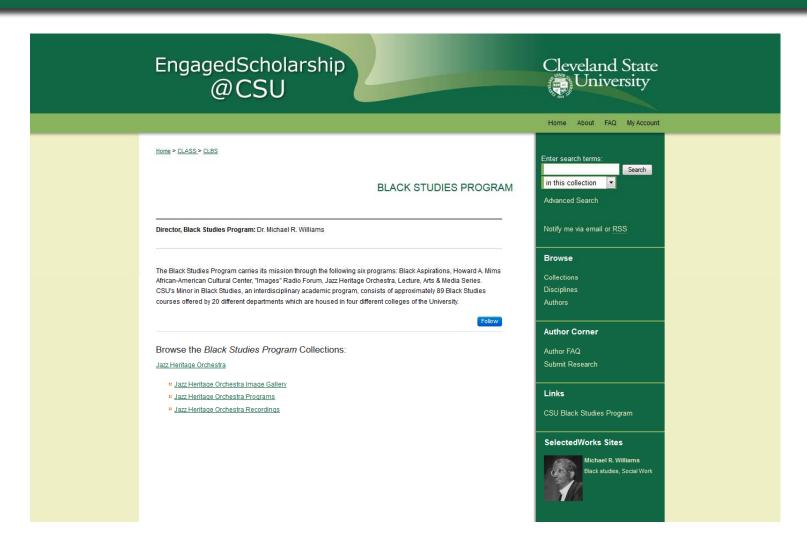




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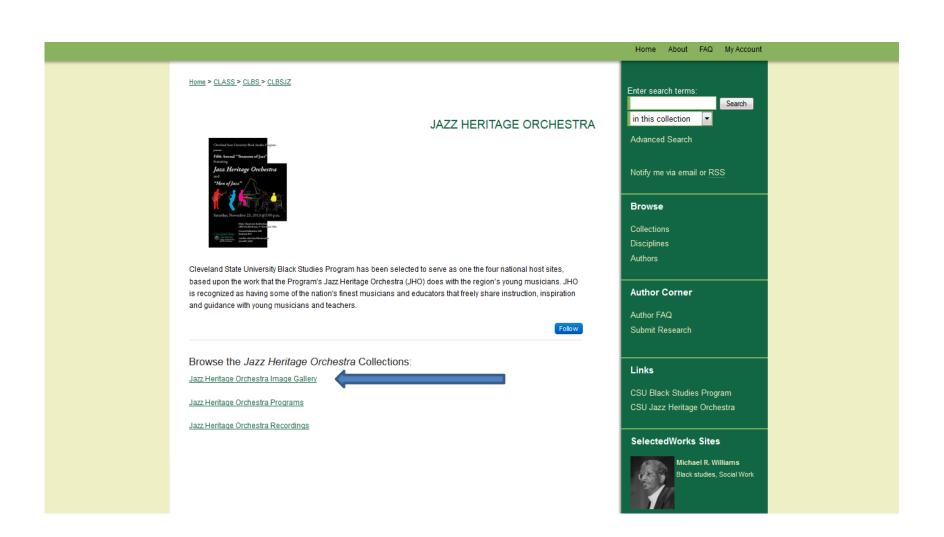






Black Studies Program on EngagedScholarship@CSU







JAZZ HERITAGE ORCHESTRA IMAGE GALLERY

Cleveland State University Black Studies Program has been selected to serve as one the four national host sites, based upon the work that the Program's Jazz Heritage Orchestra (JHO) does with the region's young musicians. JHO is recognized as having some of the nation's finest musicians and educators that freely share instruction, inspiration and guidance with young musicians and teachers.

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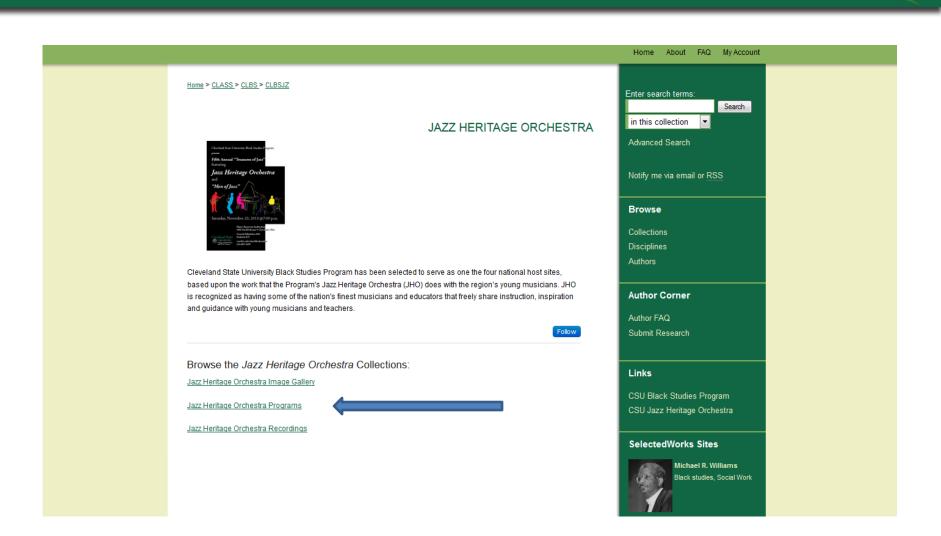


Michael R. Williams Black studies, Social Work

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JAZZ HERITAGE ORCHESTRA PROGRAMS

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1st Treasures of Jazz: Clark Terry Residency Project with the Jazz Heritage Orchestra (2007)

Clark Terry; Jazz Heritage Orchestra, Cleveland State University; Dennis Reynolds; Black Studies Program, Cleveland State University; and Michael R. Williams

This program was called "The First Annual Legends of Jazz Concert Series," later called the Treasures of Jazz.

During the Clark Terry Residency Project, Clark Terry performed with the CSU Black Studies Program Jazz Heritage Orchestra. The Lower Campus Cleveland School of the Arts ensemble also performed.



2nd Treasures of Jazz: Benny Golson with the CSU Heritage Orchestra (2008)

Benny Golson; Jazz Heritage Orchestra, Cleveland State University; Dennis Reynolds; Cleveland Music Settlement House Jazz Combo; Black Studies Program, Cleveland State University; and Michael R. Williams

The program includes performances by the Cleveland Music Settlement House Jazz Combo and Benny Golson with the CSU Jazz Heritage Orchestra.



3rd Treasures of Jazz: Vanessa Rubin with the CSU Jazz Heritage Orchestra (2009)

Vanessa Rubin; Jazz Heritage Orchestra, Cleveland State University; Dennis Reynolds; Black Studies Program, Cleveland State University; and Michael R. Williams

Program included performances by 2 v 2 Jazz Engemble (local high echool students)



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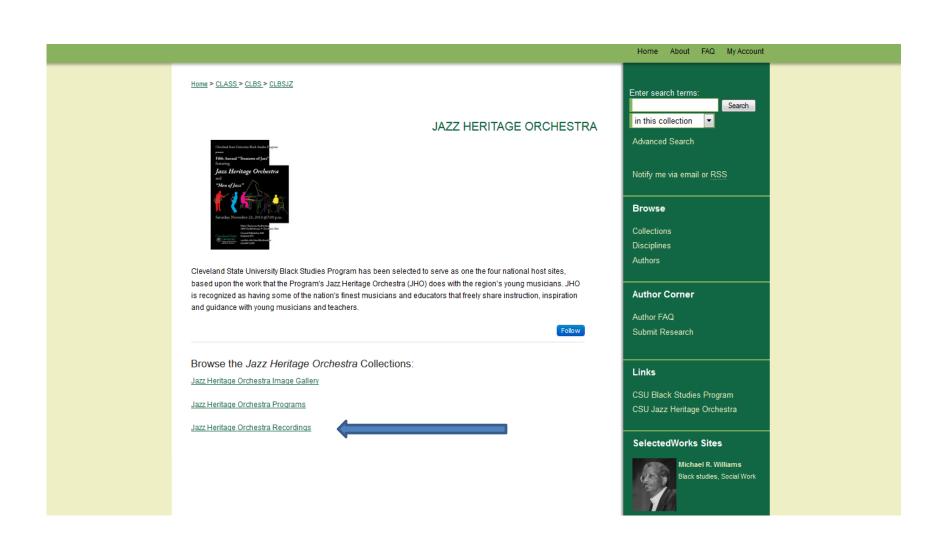
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Steppin' Out is the first CD of this 16-piece professional not-for-profit orchestra in residence in the Cleveland State University Black Studies Program. In a thoroughly contemporary twist on the classic jazz lore tradition of the territory band, the Jazz Heritage Orchestra reflects the contributions of an impressive range of musicians from several points on the Midwestern map.

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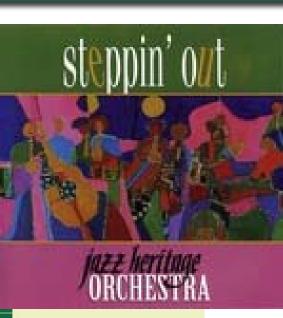
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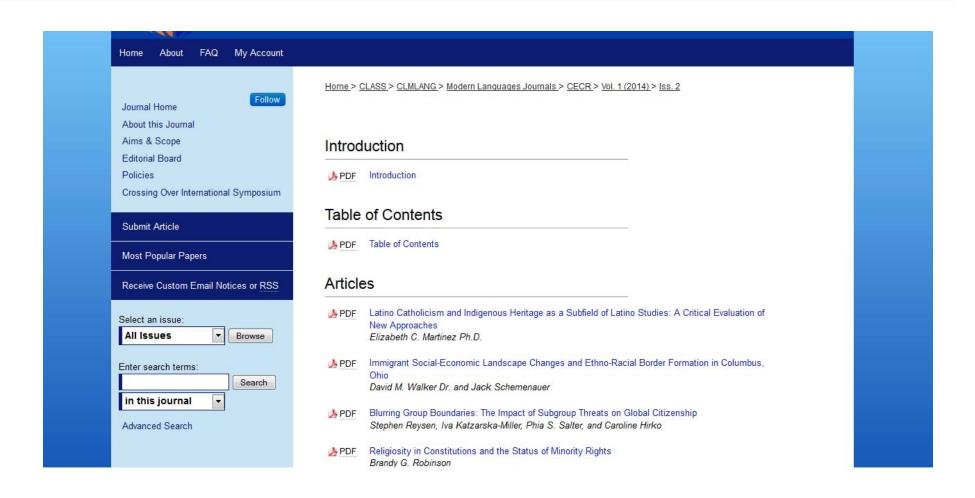


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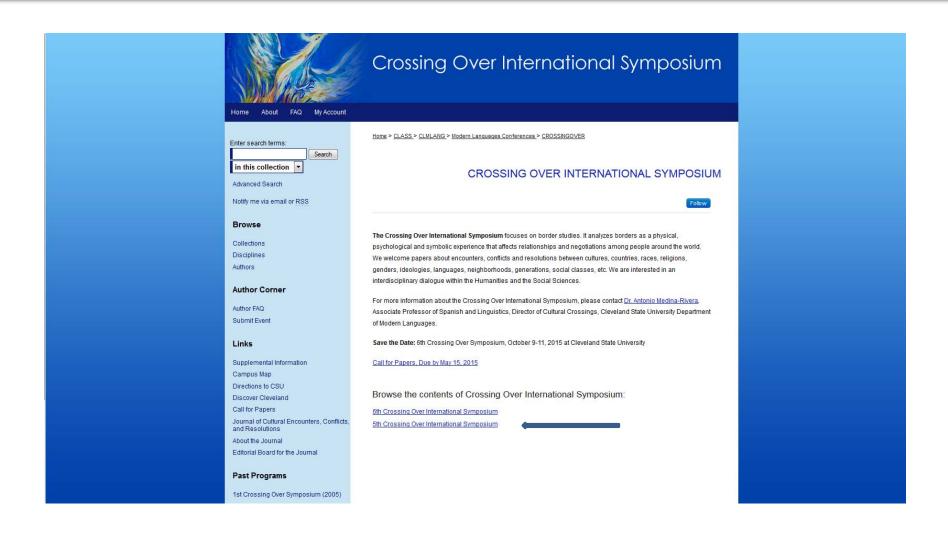






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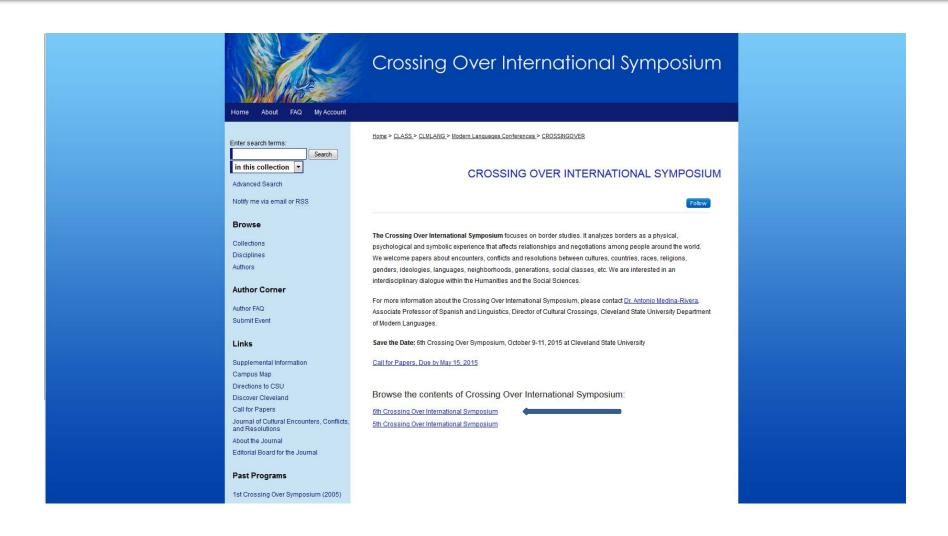
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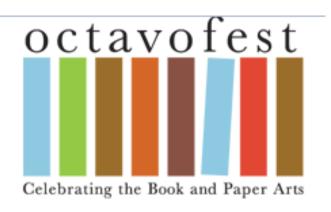




"It is very gratifying that the site provides world-wide exposure, not only to the publication and the conference, but also to our department."

Lee Wilberschied, Ph.D., Associate Professor Emerita Spanish and Foreign/Second Language Acquisition Department of Modern Languages





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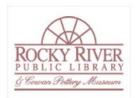
























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Octavofest

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Octavofest events that honor the wonderful, indomitable book—please peruse our list of events to select those that you must attend!

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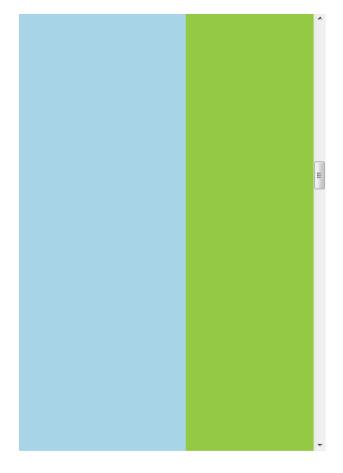


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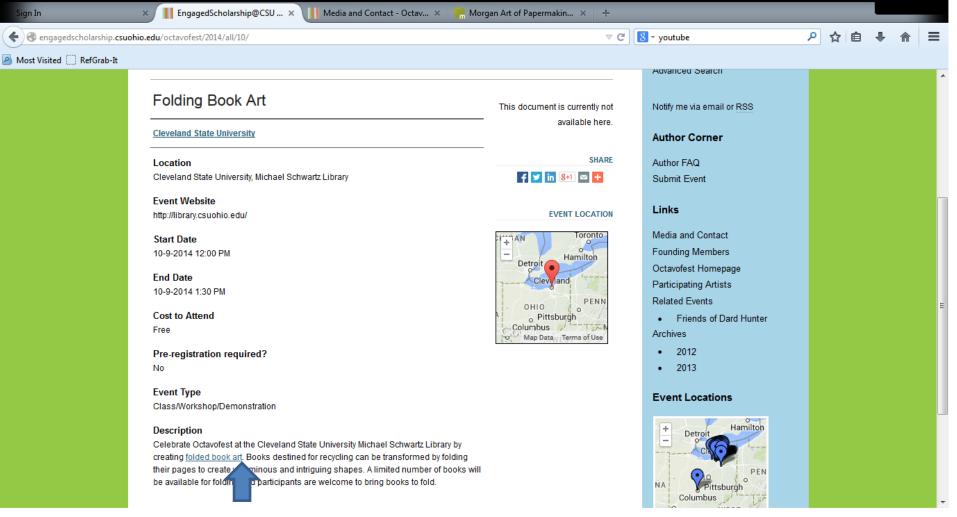
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4:00 PM	Write On! Brook Park Branch, Cuyahoga County Public Library Cuyahoga County Public Library - Brook Park Branch 4:00 PM - 5:00 PM
6:30 PM	Intermediate Fiction Writing Workshop South Euclid Branch, Cuyahoga County Public Library Cuyahoga County Public Library - South Euclid Branch 6:30 PM - 8:30 PM

Thursday, October 9th

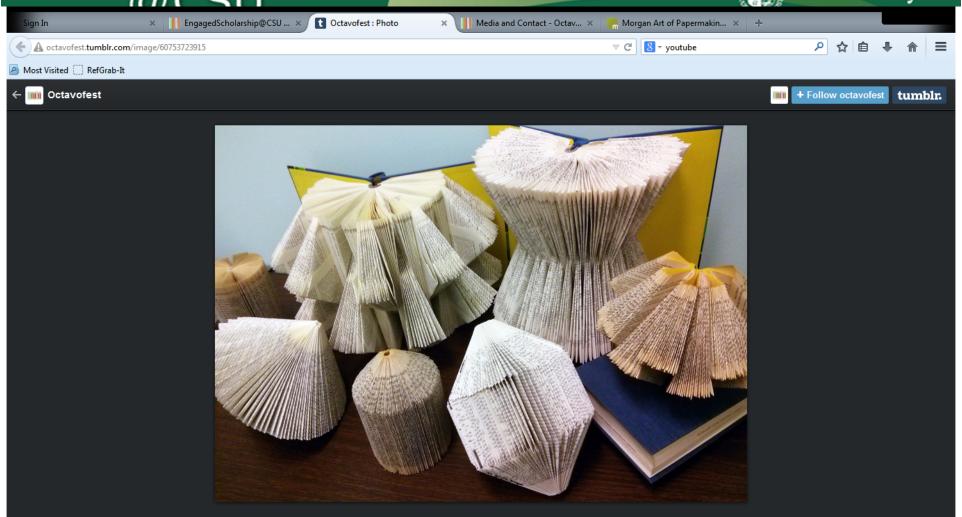
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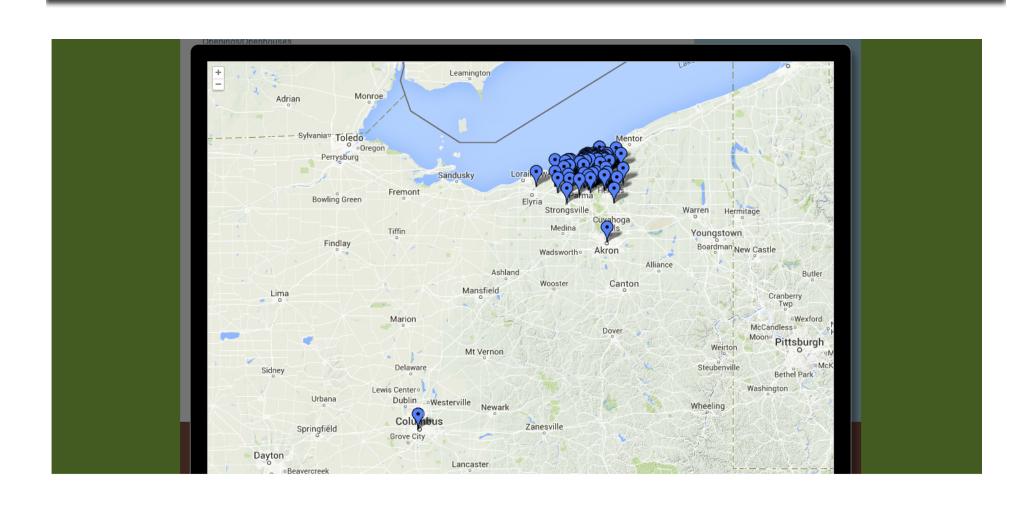




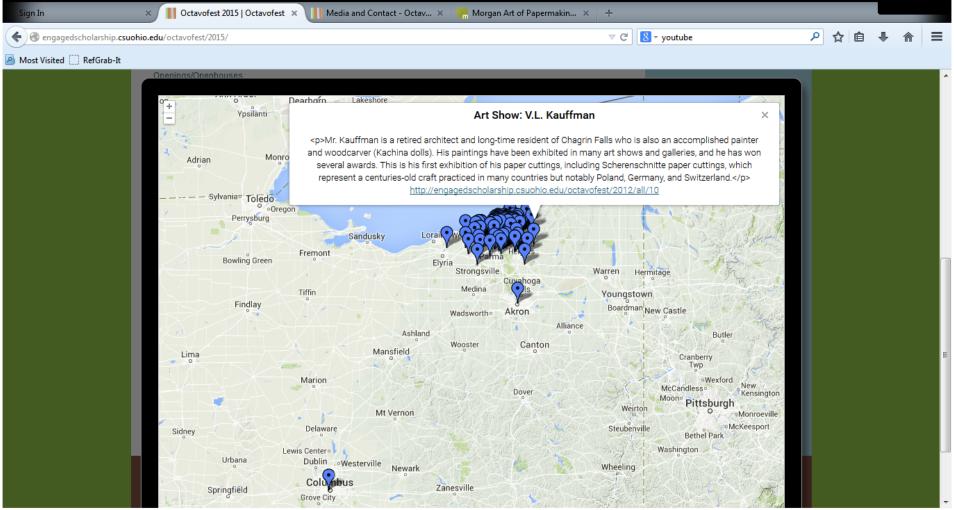














BUILDING EDUCATIONAL TOOLS





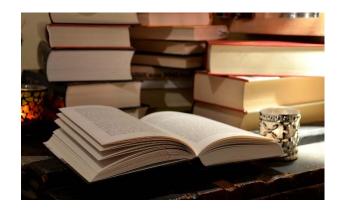
Charles Chesnutt: Citizen of Cleveland















Charles Chesnutt: Citizen of Cleveland



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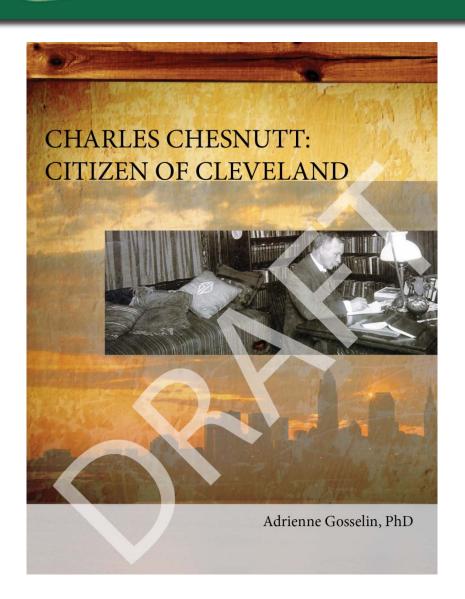


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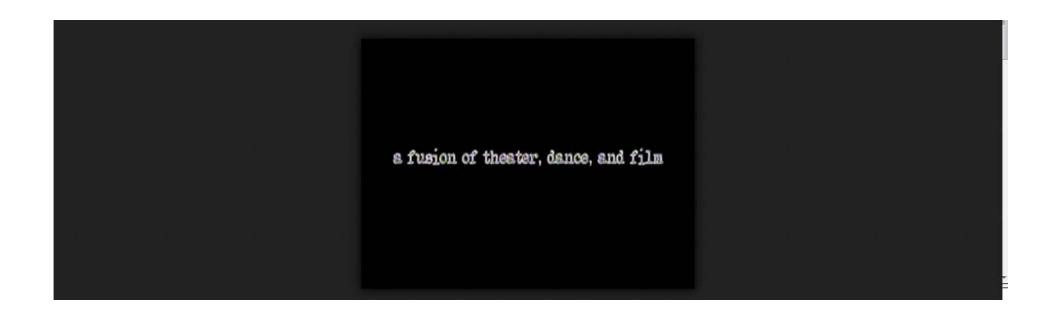


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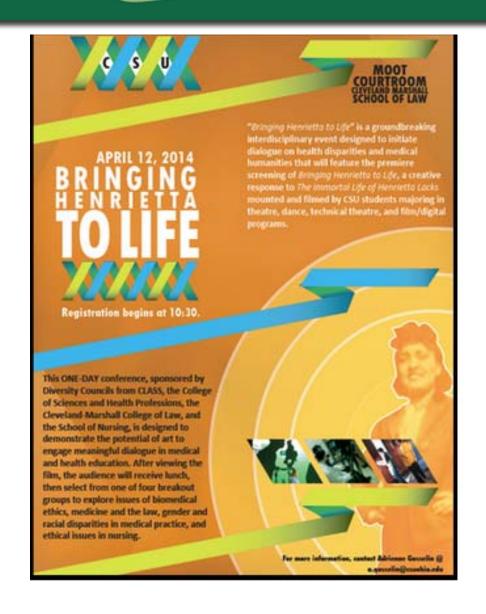




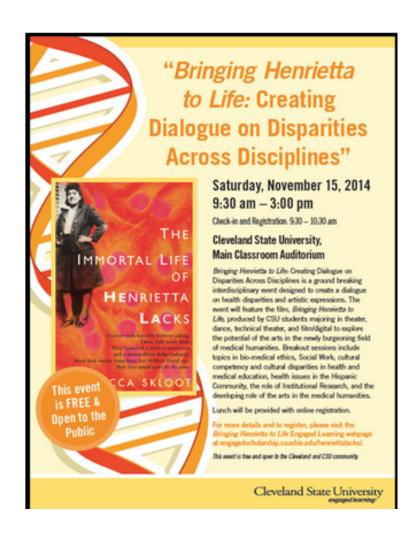
















Collaboration among CLASS Dean's Diversity Council expanded outreach and broadened student audience to nursing, law, health professions, education and social science



CLASS Dean's Diversity Council (CDDC)

College of Liberal Arts & Social Sciences

College of Education and Health Services

Cleveland-Marshall College of Law

School of Nursing

College of Sciences and Health Professions



The Council Collaboration received an award from the Provost (right) as part of the President's Diversity Council Awards Program.







What Drives Asian Descendant Students' Motivation for Learning? Exploring the Key Ingredients to Nurture Achievement.

Melissa Beaune¹, Yiyin Wang², Mary Gove, and Grace Huang Department of Teacher Education, Cleveland State University

Introduction

This motivation project is part of a larger study exploring the relationship between Asian parenting styles and children's academic achievement. In light of the consistent Asian students PISA (Programme for International Student Assessment) data results and the media phenomenon created by Amy Chua's Battle Hymn of the Tiger Mother in 2011 in U.S., our research team found that high motivation has been a reoccurring theme in children's academic achievement in the perceptions of Asian descendant parents. The purpose of this project was to examine the Asian descendant students' motivations for learning through the parents' experiences and perceptions.

Research Methods

Phenomenological approach was used. The research methods include individual interviews and a focus group. Eighteen parents, including thirteen mothers and five fathers participated in this study. All participants had at least one child within the ages of 3-23 years old. Based on the thematic analysis, four themes emerged.

Participants:

- · Individual Interview: 13 mothers
- Focus Group: 10 parents (5 fathers, 5 mothers)

1 & 2 : Co-first Authors



Key Themes

The following four themes nurture development of children's self-motivation.

- Expectations of parents' setting high and clear goals for their children.
- I always want him to get [a good grade], the basic thing he can. I mean, I'm not expecting too much from him.
 That is his ability. (Quincy)
- Sometimes, I notice that they will either get a B+ or an A-, but they still don't understand the subject. . . . [Comparing] to a lot of other kids, it may be easy for them [daughters] to get a relatively high score but [it] doesn't mean that they know it. (Sam)
- Resources that allow their children to explore their interests, including academic and extracurricular activities. We also found that parents changed their methods of providing the resources based on the child's developmental stage.
- I also give my son extra exercises to do worksheet, because I want him to go to a good university and have a good career. (Quincy)
- Every summer, ... I let them sleep a little bit loter, but they get up at 8 or 9, and they just read or do worksheets. I prepare worksheets for them. They all have to sit down to do worksheets, social studies, math study and I just lined up Monday through Friday, just like they are going to school. (Hannah)

- 3. Communication of realistic goals, reasonable negotiation, and clarification with their children. Communication was interpreted as a source of support from the parents to the children. The except below includes the components described above.
- Mammy you don't seem to care that much that I had a
 bad grade." [The doughter said] I said," I only worry that
 you work too hard." So in my mind, even though I expect
 her to get an A and she expects to get an A also. But I
 really don't gove her the pressure. As long as she knew
 where the mistakes are, why she made that mistake, then
 for me, it is fine. (Glenda)
- 4. Modeling of knowledge, skills, efficacy, and positive attitudes for their children. The qualities of participants' modeling were consistent and responsive to their children's academic needs.
- If you enter my home, you will see a bulletin board ... the key part is the calendar "to-do" list. For example, you will have to plan your day, what are the things you [the chid] want to achieve? Of course for a three-year-old, they couldn't write. I would ask them to draw on a piece of paper, like they want to read, they want to draw, they want to blav, they want to play the piano...
- He is not really interested in reading or some language arts, but math and science. He always asks my husband: "why you came home so late? Is it about experiment?" My husband will explain to him, he just listens and listens, and he was so attentive, yeah! And really want to find out what my husband research was about. (Duina)



Contact Information

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Conclusion



Based on our findings, we developed the diagram above to describe the attributes that foster children's motivation, including parental Communication, Modeling, and

Resources. They used these ingredients interchangeably with one another and this occurred consistently during the child's life. Additionally, these ingredients supported the parents' expectations of the child to ensure that they were explicit and responsive to their children's needs. We concluded that the four ingredients described above impacted children's motivation which foster their accodemic achievement.

References

· References will be provided upon request



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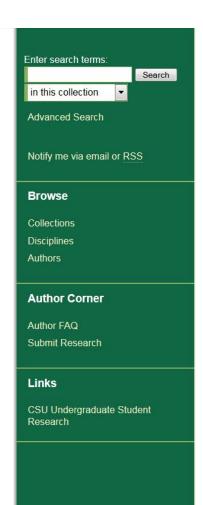
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Normalizing for Noise Removal from Electrocardiogram Signals

Dominique Diamond Brooks, Cleveland State University

Daniel J. Simon, Cleveland State University



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Description

Electrocardiography (ECG) measures the electrical impulse of the heart over time using electrodes that attached to the body. Designing a computational program using a synthetic ECG to test Normalized Least Mean Square (NLMS) filter serves as a basis to remove noise from the signal.







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Comments

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Faculty researcher: Dr. Daniel Simon

Student researcher: Dominique Diamond Brooks

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Normalizing for Noise Removal from Electrocardiogram Signals By: Dominique Brooks and Dr. Daniel Simon (Faculty Advisor) Cleveland State University September 6, 2012



Introduction

- Electrocardiography (ECG) measures the electrical impulse of the heart over time using electrodes that attached to the body
- ECG data can determine arrhythmias in the heart
- The ability to analyze the ECG by observing the signal is difficult due to human motion
- Designing a computational program using a synthetic ECG to test Normalized Least Mean Square (NLMS) filter serves as a basis to remove noise from the signal

Figure 1-Synthetic ECG

Using a synthetic ECG comes with some great advantages that allows us to:

- Use this as a standard for exploring the effect of various parameters in the signal
- Change the levels of the accelerometer noise
- Use different sampling frequencies

NLMS

- Use NLMS to estimate the effect of user motion on measured ECG
- Use estimated effect to estimate noise for ECG

Results



Figure 2- Estimated Coefficients of x, y, z

- NLMS is producing the estimated coefficients of user acceleration
- NLMS is converging to 1, which is the correct value, with little noise and remains at 1 with some noise in the signal

Conclusion

- The NLMS filter results indicate that the filter is working properly
- We will expand on this research by adding computational intelligence in combination with NLMS

Methods

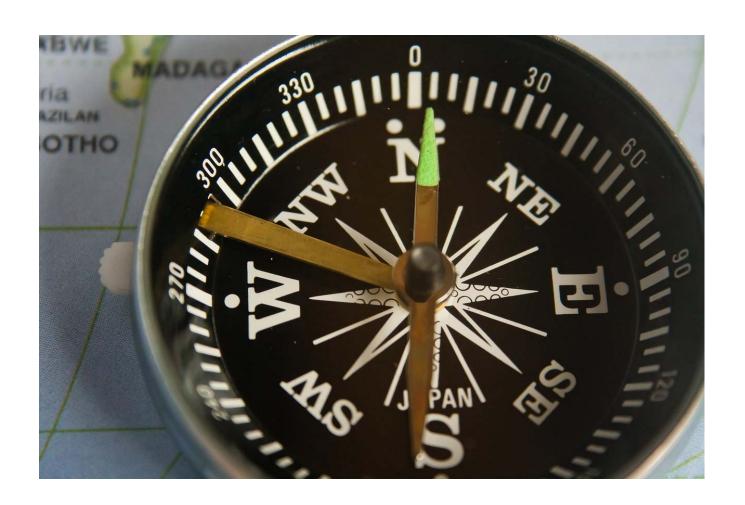
 To test the efficiency of NLMS, we used a synthetic ECG that is similar to a normal human ECG



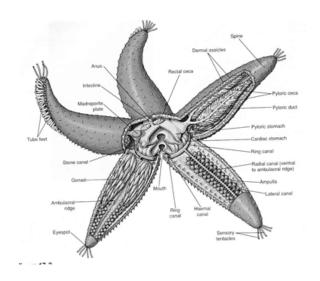




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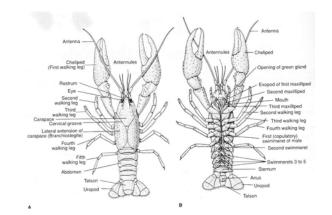


Animal Biology

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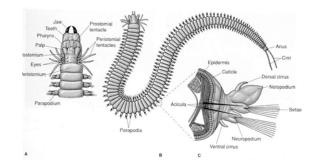
Laboratory Program

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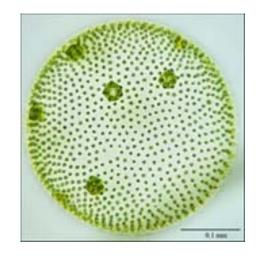
This laboratory is a co-requisite for Bio 302, Animal Biology, which is required for the B.S. in Biology at Cleveland State University

Modified 2004, 2006, 2008, 2011, 2012, 2013, 2014 (minor improvements, and extensively rewriting Lab 11 for software application in phylogenies, and revising questions and approach to Lab 12).



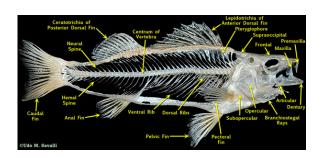


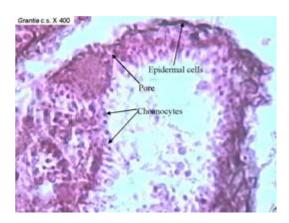










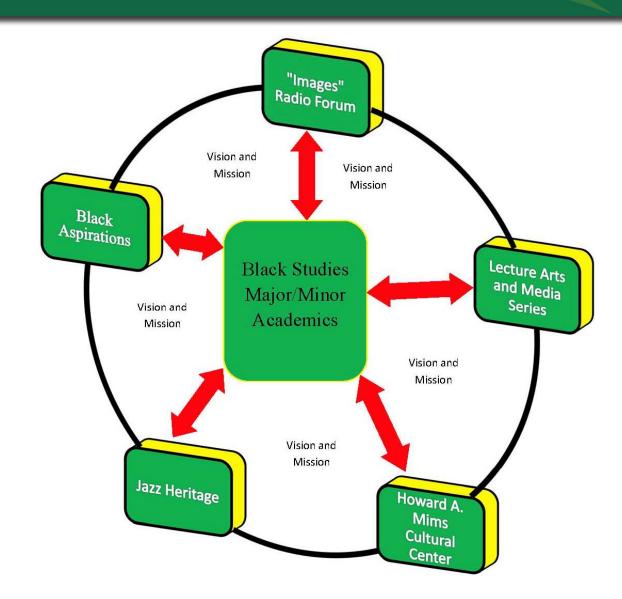








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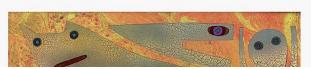
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