

Curriculum Vitae

Ervin J. China

Phone: 678-891-3720 • Email: echina1@gsu.edu

EDUCATION

Ph.D., Teaching & Learning (Mathematics Education Concentration), Georgia State University, Atlanta, GA, 2020

DISSERTATION: *Investigating College Algebra Help-seeking Behaviors of African American Community College Students: A Hierarchical Linear Modeling Approach*

M.A., Mathematics, Eastern Michigan University, Ypsilanti, MI, 2009

THESIS: *On Itô's Lemma and Stochastic Derivatives*

B.S., Mathematics, Morehouse College, Atlanta, GA, 2007

SENIOR THESIS: *On the Seikkala Derivative of a Fuzzy Process*

EMPLOYMENT HISTORY

Assistant Professor, Georgia State University's Perimeter College, Clarkston, GA, 2021 – Present

At Georgia State University's Perimeter College, I presently teach MATH 1001 (Quantitative Skills and Reasoning) and MATH 1401 (Elementary Statistics). I effectively manage classrooms of over 30 students, maintain up-to-date records of grades and attendance, provide assistance during office hours, advise and register students, provide supplemental instruction once a week, and regularly attend faculty/department meetings and professional development opportunities. Additionally, I am the recording secretary of the MATH 1001 Curriculum Committee.

Adjunct Instructor, American Intercontinental University, Dunwoody, GA, 2021 – Present

At AIU, I teach MATH 125 (General Mathematics) and BUSN 311 (Quantitative Methods and Analysis).

Lecturer, Clayton State University, Morrow, GA, 2019 – 2021

At Clayton State, I taught MATH 1113 (Precalculus), MATH 1111 (College Algebra), MATH 1101 (Math Modeling), MATH 1112 (Trigonometry & Analytic Geometry), and MATH 1401 (Introductory Statistics). I also taught dual-enrollment students (students who are simultaneously enrolled in high school and college) at Henry County's Academy of Advanced Studies. I effectively managed classrooms of over 30 students, maintained up-to-date records of grades and attendance, provided assistance during office hours, advised and registered students, provided supplemental instruction once a week, and regularly attended faculty/department meetings and professional development opportunities.

Additionally, I was the Chair Elect for the Undergraduate Student Awards Committee. As the upcoming Chair, I oversaw and facilitated the Awards Ceremony and recognition of outstanding students in the College of Information & Mathematical Sciences.

Program Coordinator, Southern Crescent Technical College, Griffin, GA, 2013 – 2019

As the Program Coordinator for Learning Support Mathematics at Southern Crescent Technical College, my responsibilities included working with the Dean and Vice President of Academic Affairs to redesign learning support courses in an effort to retain more students and move them through these courses, which often act as gatekeepers, more quickly. Additionally, my responsibilities included creating and proctoring departmental exit exams and performing statistical analyses of the outcomes. I scheduled classes and class times, attended yearly consortium meetings to review and revise state standards for mathematics courses, and worked with administrators in locating, hiring, and orienting new faculty members.

Adjunct Mathematics Instructor, Southern Crescent Technical College, Griffin, GA, 2013 – Present

As a mathematics instructor, I teach MATH 1113 (Precalculus), MATH 1111 (College Algebra), MATH 1101 (Math Modeling), MATH 1012 (Foundation of Mathematics), MATH 0099 (Intermediate Algebra), MATH 0098 (Elementary Algebra), and MATH 1011 (Business Mathematics). I effectively manage classrooms of over 25 students, maintain up-to-date records of grades and attendance, provide assistance during office hours, advise and register students, provide supplemental instruction once a week, and regularly attend faculty meetings and professional development opportunities.

Adjunct Mathematics Instructor, Gordon State College, Barnesville, GA, 2013 – 2019

As a mathematics instructor for Gordon State College (teaching on UGA Griffin campus), I worked under the School of Arts and Sciences in the Mathematics and Computer Science Department. While there, I taught courses ranging from developmental mathematics to introductory statistics.

Co-teacher, Georgia State University, Atlanta, GA, Summer 2015

During the summer of 2015, I co-taught a course with my doctoral advisor called EDUC 2120: Exploring Sociocultural Perspectives on Diversity. Given the rapidly changing demographics in our state and country this course was designed to equip future teachers with the fundamental knowledge of understanding culture and teaching children from diverse backgrounds. Specifically, the course examined: (a) the nature and function of culture; (b) the development of individual and group cultural identity; (c) definitions and implications of diversity; and (d) the influences of culture on learning, development, and pedagogy.

It was a reading-intensive course, where each week I engaged students in meaningful discourse about the readings. Students completed a 10-hour service learning field experience that provided them insight into understanding diversity and culture. At the end of the experience, they wrote a personal narrative essay. At the end of the course, the students wrote a reflective essay grounded in an across the readings of John Dewey, Paulo Freire, and Gloria Ladson-Billings.

Mathematics Instructor, Central Georgia Technical College, Warner Robins, GA, 2010 – 2013

As a mathematics instructor for Central Georgia Technical College, I worked under the Department of General Education where I taught Elementary Algebra, Algebraic Concepts, Foundations of Mathematics, and College Algebra. Additionally, I served as the General Education advisory committee representative for the Electronics Technology and Practical Nursing programs, and I was a co-advisor for the Student Leadership Council.

Adjunct Mathematics Instructor, Brown Mackie College, Fort Wayne, IN, 2010

Adjunct Mathematics Instructor, Davenport University, Battle Creek, MI, 2010

Mathematics Instructor, Sylvan Learning Center, Ann Arbor, MI 2007 – 2009

As a Sylvan Learning Center certified instructor, I taught K-12 students (and college students on occasion) foundational mathematics, algebra, geometry, trigonometry, and calculus. Additionally, I taught ACT/SAT preparation and study skills.

Graduate Assistant, Eastern Michigan University, Ypsilanti, MI 2008 – 2009

As a graduate assistant for the department of mathematics, I tutored developmental mathematics, administered placement tests, and graded papers for Mathematical Reasoning and Introduction to Linear Algebra. In addition, I supervised the mathematics laboratory and worked with students requiring assistance with various mathematics software.

Assistant to Curriculum Coordinator, University of Michigan, Ann Arbor, MI, 2008

As the assistant to the Summer Engineering Academy's (SEA) Curriculum Coordinator, I assisted in the development and implementation of academic activities, programs, and events. I scheduled study and tutoring times, locations, and staff as well as field experiences. My duties also included administering questionnaires/surveys to SEA participants for evaluation purposes and maintaining accurate spreadsheets of SEA spending.

Intern, National Aeronautics and Space Administration (NASA), Marshall Space Flight Center, Huntsville, AL, 2006

As a third-year intern, I worked for a nuclear engineer and learned numerical techniques for solving a system of point-kinetics equations used in lab experiments. The method for solving

the equations was previously published as a graduate thesis, and the code was already written. My responsibility was to comprehend the method and make sense of the code, making minor deletions and additions as I saw fit. In addition to working at the NASA facility, I taught algebra and trigonometry for the Michael P. Anderson Summer Engineering Outreach Program at Alabama Agricultural and Mechanical University, effectively managing a classroom of over 12 students.

Intern, National Aeronautics and Space Administration (NASA), Marshall Space Flight Center, Huntsville, AL, 2005

While at NASA, I studied finite element analysis and used it to solve the one-dimensional diffusion equation under certain boundary and initial conditions. The solution to this differential equation modeled the neutron flux in a reactor core. After a seven-week study of Galerkin's Method, I coded and implemented the method in Matlab[®]. My work that summer made my advisor's work easier in that, with just a few minor adjustments to the code (i.e. the density of the diffusing material, diffusion coefficient, boundary/initial conditions), he had a quick and convenient way of finding solutions to the diffusion equation.

PUBLICATIONS & RESEARCH INTERESTS

Jett, C. C., **China, E. J.**, Ortiz, N. A., & Savage, K. (2020). Black male mathematics educators speak: Reflections from a Symposium. Manuscript submitted for publication.

China, E. J., (2014). And then there was light: A book review of *The brilliance of black children in mathematics: Beyond the numbers and toward new discourse*. *Journal of Urban Mathematics Education* 7(1), 88-95, <http://ed-osprey.gsu.edu/ojs/index.php/JUME/issue/view/15>

Research Interests, post-secondary (mathematics) teacher preparation; issues of race, sex, and equity in the mathematics classroom; mathematics identity/socialization; hierarchical linear modeling; mathematics help-seeking behaviors; community college mathematics

INVITED RESEARCH PRESENTATIONS

China, E. J. (February 2020) Motivational and Mentoring Math Conversations. *Presented at the University of West Georgia for the African American Male Mathematics Network Symposium*

ACADEMIC AWARDS & HONORS

- Recipient, Georgia State University's College of Education & Human Development Outstanding Ph.D. Student Award in Mathematics Education, 2020

- Recipient, 2018 Rick Perkins Award for Excellence in Technical Instruction (Instructor of the Year)
- Nominee, 2017 Rick Perkins Award for Excellence in Technical Instruction (Instructor of the Year)
- Recipient, Southern Regional Educational Board Doctoral Fellowship, Georgia State University, 2014 – 2019
- Recipient, Graduate Assistantship, Eastern Michigan University, 2008 – 2009
- Recipient, Project S.P.A.C.E. Ronald McNair Scholar Scholarship, Morehouse College, 2003 – 2007
- Recipient, Harriett J. Walton Award for Academic Excellence, Morehouse College, 2007
- Magna Cum Laude Graduate with Departmental Honors, Morehouse College, 2007

TEACHING

Clayton State University

MATH 0998: Support for Mathematical Modeling
 MATH 1101: Introduction to Mathematical Modeling
 MATH 1111: College Algebra
 MATH 1112: Trigonometry & Analytic Geometry
 MATH 1113: Precalculus
 MATH 1401: Introduction to Statistics

Southern Crescent Technical College

MATH 0098: Elementary Algebra
 MATH 0099: Intermediate Algebra
 MATH 1012: Foundations of Mathematics
 MATH 1100: Quantitative Skills & Reasoning
 MATH 1101: Introduction to Mathematical Modeling
 MATH 1111: College Algebra
 MATH 1113: Precalculus
 MATH 1127: Introduction to Statistics

Gordon State College (at University of Georgia, Griffin)

MATH 0099: Learning Support Mathematics
 MATH 1111: College Algebra
 MATH 1001: Quantitative Skills & Reasoning
 MATH 1113: Precalculus
 MATH 2101: Introduction to Statistics

Central Georgia Technical College

- MATH 0096: Math I (Basic College Mathematics, Learning Support)
 MATH 0097: Math II (Basic College Mathematics, Learning Support)
 MATH 1011: Business Mathematics
 MATH 1012: Foundations of Mathematics
 MATH 1013: Algebraic Concepts
 MATH 1111: College Algebra

SERVICE

Civic

- Mathematics Tutor at Griffin Elementary School, 2016 – Present
- Volunteer for Community Connections, 2016 – Present

Clayton State University

- Undergraduate Student Awards Committee, 2019 – 2020

Southern Crescent Technical College

- Instructional Faculty Consortium Committee’s Mathematics Chairman (Central Region), 2016 – 2019
- Faculty advisor for the Medical Assisting Program, 2013 – 2019
- Faculty advisor for Student Government Association, 2013 – 2014
- Faculty advisor and extemporaneous speaking judge for Skills USA, 2013 – 2019
- Quality Enhancement Plan (QEP) cohort member, 2015 – 2016
- Program Coordinator for Learning Support Mathematics, 2013 – 2019

Reviewer

- *Journal of Urban Mathematics Education (JUME)*, (2)
- Bittinger, M. L., & Beecher, J. A. (2016). *Developmental mathematics: College mathematics and introductory algebra*.
- Next Generation Accuplacer Test Cut Scores Committee, June 2018
- Georgia Milestones Assessment Rangefinding Committee for Mathematics—Geometry and Analytic Geometry, May 2019

Professional Memberships

- National Organization for Student Success (formerly known as the National Association for Developmental Education (NADE)), 2012 – 2019
- Georgia Association for Developmental Education (GADE), 2013 – 2019
- Georgia Mathematical Association of Two-Year Colleges (GMATYC), 2012 – 2019

- Pi Mu Epsilon Honorary National Mathematics Society
- Beta Kappa Chi National Scientific Honors Society
- Golden Key International Honour Society
- Atlanta, Georgia Chapter of the Morehouse College Alumni association, 2010 – Present