

Ebony O. McGee

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Education

- Postdoctoral National Science Foundation Minority Postdoctoral Fellow, 2011-2012
Feinberg School of Medicine, Department of Faculty Affairs, Northwestern University
- Postdoctoral National Academy of Education/Spencer Foundation Fellow, 2009-2010
Department of Comparative Human Development
University of Chicago
- Ph.D. Mathematics Education, 2009
University of Illinois at Chicago (UIC)
Thesis Title: Race, Identity, and Resilience: Black College Students Negotiating Success in Mathematics and Engineering
Dissertation Committee: Dr. Danny Martin (Chair), Dr. Eric Gutstein, Dr. Amanda Lewis, Dr. Celina Sima, and Dr. David Stovall
- M.S. Industrial Engineering, 1998
New Jersey Institute of Technology, *summa cum laude*
- B.S. Electrical Engineering, 1996
North Carolina Agricultural & Technical State University, *summa cum laude*

Awards and Grants

- April 2010 American Educational Research Association Division G – The Social Context of Education- 2010 Outstanding Dissertation Award
- January 2010 2010 Spencer Exemplary Dissertation Awards Finalist
- April 2009 American Educational Research Association and the Hechinger Institute on Education and the Media Course Award Recipient. *Public Communication for Early-Career Education Researchers—Learning the Ropes*, San Diego, California
- Nov 2008 Keynote Speaker for the 2008 Success Summit, African American Success Foundation. *Resilience Among Successful African American Mathematics and Engineering College Students*, Fort Lauderdale, Florida.
- May 2005 Exemplary Graduate Mentor Award for Undergraduate Research and Leadership Activities, Institute for Research on Race and Public Policy, University of Illinois at Chicago

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- 2004 - 2005 Lydia Donaldson Tutt-Jones Memorial Research Grant, African American Success Foundation, Ft. Lauderdale, Florida
- 1997-1998 Graduate Representative of the Year, Graduate College, New Jersey Institute of Technology, Newark, New Jersey
- 1996 Ralph Ward Achievement Award for highest graduating GPA of nation wide graduating Jackie Robinson Scholarship recipients, Jackie Robinson Foundation, New York

Fellowships & Scholarships

- 2011-2012 National Science Foundation Minority Postdoctoral Award
Postdoctoral Mentor: Dr. Richard McGee (no relation)
Department of Faculty Affairs, Northwestern University
- 2009-2010 National Academy of Education/Spencer Foundation Postdoctoral Fellow
Postdoctoral Mentor: Dr. Margaret Beale-Spencer, Human Comparative Development Department, University of Chicago
- Summer 2009 Fellow, Emerging Scholars Interdisciplinary Network Summer Program in Applied Multi-Ethnic Research at ICPSR, University of Michigan
- 2007-2008 Abraham Lincoln Fellowship, University of Illinois at Chicago
- 2007-2008 Jackie Robinson Foundation "Extra Innings" Graduate Fellowship
- 2006-2007 Spencer Dissertation for Research Related to Education Fellow
- 2006-2007 Association for the Study of Higher Education/Lumina Foundation, Dissertation Fellow
- 2006 American Educational Research Association Minority Fellow Finalist (unable to accept)
- 2006 American Psychological Association Doctoral Research Seminar Fellow
- 2005-2006 Dr. Martin Luther King Scholarship, Graduate College, UIC
- 2003-2006 Diversifying Faculty in Illinois Fellowship
- 1996-1998 Fellowships for Graduate Minorities in Engineering and Science (GEM)
- 1991-1996 Jackie Robinson Foundation National Scholarship funded by General Electric

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- 1991 -1996 General Motors Scholarship
- 1991-1993 Roothberth Fund National Fellowship
- 1991-1992 Alpha Kappa Alpha National Scholarship

Referred Articles and Book Chapters

- McGee, E. O. & Martin, D. B. (2011). From the hood to being hooded: Case study of a Black male PhD. *Journal of African American Males in Education*. 2(1), 46-65.
- Spencer, M. B., Dupree, D., Tinsley, B., McGee, E. O., Hall, J., Fegley, S., & Gross, T. (in-press). A Theory of Resistance and Resiliency in a Color Conscious. To appear in the "Society" for the *APA Educational Psychology Handbook* in late 2011.
- McGee, E. O., & Spencer, M. B. (in-press). Theoretical Analysis of Resilience and Identity: An African American Engineer's Life Story. To appear In H. Varenne, E. W. Gordon, and L. Lin (Eds.), *Thinking Comprehensively About Education* in late 2011.
- McGee, E. O. (Under review). When it comes to the mathematical experiences of Black pre-service teachers...race matters. Submitted to *Journal of Research in Mathematics Education*.
- McGee, E. O., & Martin, D. B. (Accept with Revisions). "You would not believe what I have to go through to prove my intellectual value!": Stereotype Management Among Successful Black College Mathematics and Engineering Students. Submitted to the *American Education Research Journal*.
- McGee, E. O. (To be submitted). Mapping Resilience in High-achieving Black college students.
- Martin, D. B. & McGee, E. (2009). Mathematics literacy for liberation: Knowledge construction in African American context. In B. Greer, S. Mukhophadhay, S. Nelson-Barber, & A. Powell (Eds.), *Culturally responsive mathematics education*. Mahwah, NJ: Lawrence Erlbaum Associates.
- McGee, E. (2005). *Chronicles of Success: Black Students Achieving in Mathematics, Science and Engineering*, 2005 Success Summit of the African American Success Foundation, Fort Lauderdale, FL. Published online: <http://www.blacksuccessfoundation.org/>

Research Projects

- 2011 – 2012 Postdoctoral Researcher, Feinberg School of Medicine, Northwestern University
- Principal Investigator studying the lives, experiences and career decisions of

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60 STEM of Black, Latino, Asian physical science and mathematics advanced undergraduate students, who are expected to realize their ambitions in those fields. One of the major goals is to understand more about why so few academically successful Black and Latino college students are pursuing graduate education or careers in their respective or STEM related disciplines.

2009 – 2011 Visiting Postdoctoral Researcher, Feinberg School of Medicine, Northwestern University

- Part of a qualitative research group focused on a deep understanding of the processes and factors that are currently influencing career decisions of young and potential African American, Latino/a, and female scientists.

2009-2010 Postdoctoral Researcher, Human Comparative Development Department, University of Chicago

- Principal Investigator for a study investigating identity formation among high-achieving African American high school students to determine those factors that lead to their resilience or success in the mathematics field.

Summer 2008 Research Assistant, Women in Science and Engineering, UIC

- Co-Principal Investigator for a study on female college students who transfer out and immigrate into science, technology, engineering, and mathematics majors.

2005-2006 Principal Investigator. *When it comes to the Mathematical Experiences of African Americans...Race Matters*, Chicago State University, IL

- Sole researcher for a qualitative research project dedicated to understanding the mathematical experiences of Chicago State University students through a series of narrative papers and focus groups with the intent to improve the mathematical literacy of these students.

2005 Principal Investigator, Dissertation Pilot Study
Funded by African American Success Foundation, Ft. Lauderdale, FL

- Investigation of 9 academically high achieving Black college students majoring in mathematics and engineering

Teaching and Business Appointments

January 2011- STEM Curriculum Developer and STEM Instructor for the Target HOPE
May 2011 Program, Chicago, IL

- Through the co-founded non-for-profit, The MathTech Project, I co-

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developed seven STEM based curriculum and career-centric units for the Target HOPE organization. Target HOPE provides Math, Literacy, College Development, History, and STEM instruction to underrepresented high school students in the Chicago area.

- April 2011-present Mathematics Education Consultant, Young Peoples' Project (YPP) Chicago, IL
- Performing the quantitative and qualitative program evaluation for YPP to measure the success of the program and provide documentation for securing additional grant funding. Involved with a team of mathematics education researchers from the University of Illinois at Chicago for developing YPP's curriculum content to incorporate more cultural relevant and community focused mathematics instruction and lessons.
- Fall 2010 Mathematics Education Adjunct Faculty, Mathematics for Elementary Education Majors, University of Illinois at Chicago (UIC)
- Adapting a combination of the National Science Foundation's Mathematics in Context Curriculum with Real World Math Curriculum for first year elementary education students. Emphasizing both mathematics knowledge production and teaching strategies for these preservice teachers.
- 2009- 2010 Education Adjunct Faculty, American College of Education
- Instructing undergraduate on-line courses in student engagement, classroom management, student motivation, and using technology in the classroom where students are expected to apply their course readings and learnings in weekly assignments, culminating with a research project designed for K-12 classrooms.
 - Courses Taught: Learning with Technology, Informed Research, Student Motivation and Engagement, Classroom Management
- Spring 2009 Mathematics Education Adjunct Faculty, Mathematics Methods, UIC
- Co-taught a masters-level course on teaching and learning elementary mathematics. Participants are involved in analyzing and comparing/contrasting/critiquing mathematics texts, programs, curricula, and frameworks to understand theoretical and practical issues of mathematics teaching, learning, and assessment from multiple perspectives.
- Fall 2008 Teaching Assistant, Introduction to African American Studies, UIC
- Developed curriculum and facilitated weekly discussion lectures for two African American Studies classes. Lessons created focused on the history of and theoretical perspectives within Black Studies.

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2006 – 2007 Mathematics Lecturer, Mathematics Methods K-8, Chicago State University

- An introduction to methods for teaching children developmentally appropriate topics in numbers and operations, geometry, algebra, and data analysis. Students work with manipulatives and technologies to explore mathematics, solve problems, and learn ways to teach mathematics content to children.

2005- 2006 Mathematics Specialist, African American Academic Network, University of Illinois at Chicago

- Developed curriculum and taught introductory Algebra course to conditionally admitted, incoming African American freshman undergraduate students. Grant writer for the development of a culturally relevant comprehensive mathematics program.

2005- 2006 Graduate Assistant, Chancellors Committee of the Status of Blacks, University of Illinois at Chicago

- Facilitated various activities and projects relating to campus governance, employment practices, public relations, student affairs, and a number of others that directly affect the well being of Blacks on the UIC campus and surrounding community. Co-founded a campus-wide Black and Latino/a graduate organization.

Summer 2005 Coordinator Undergraduate Research Forum: Promoting Success Among African American and Latina/o College Students. University of Illinois, Chicago

- Worked with leadership representatives of UIC policy-based programmatic units to produce a forum for incoming undergraduates to highlight the pivotal role of incorporating research experiences into their college careers.

2004- 2005 Mathematics Lecturer, Harold Washington College, City Colleges of Chicago

2003- 2005 Mathematics Lecturer, Kennedy-King College, City Colleges of Chicago, IL

Fall 2003 Educational Psychology Lecturer, University of Illinois, Chicago, IL

1997-2002 Competitive Intelligence Analyst, Hewlett-Packard & Agilent Technologies—Test & Measurement Division, Rockaway, NJ

Research and Teaching Interests

- Resiliency in high-achieving historically marginalized mathematics learners
- Motivation/Student Engagement in High-achieving African American students

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- Racial Identity, Mathematics Identity, and Identity Development/Formation
- Qualitative and Critical Race Methods in Mathematics Education
- Mathematics Education Policy
- International Mathematics Education

Mathematics/Mathematics Education Courses Taught at Collegiate Level

- Mathematics for Elementary Education Majors
- Intermediate Algebra
- Mathematics Methods K-8 (undergraduate and graduate level)
- Introduction to Algebra (most frequent)
- Probability and Statistics

Educational Courses Taught at Collegiate Level

- Introduction to Educational Psychology
- Motivation and Student Engagement
- School Improvement: Facilitating Change and School Transformation
- Classroom Management: Creating Safe and Supportive Learning Environments
- Learning with Technology
- Informed Research

Non-Print Media Invited Presentations

McGee, E. O. (October 2009). CEOSE Mini-Symposium on Women of Color in STEM: Perspectives on Experiences, Research, Evaluation, and Policy in Higher Education and Careers, Arlington, VA

McGee, E. O. (February 2007). *The Black Relationship GAP*. Panel Discussion, Speaker for Chicago Tonight, WTTW's Channel 11 Public Television Station, Chicago, IL

McGee, E. O. (February 2007). *I am Technology: The State of Blacks in Higher Education*. Panel Speaker presented at the Illinois Institute of Technology, Chicago, IL

Peer Reviewed National Conference Presentations and Papers

McGee, E. O. & Martin, D. B. (April 2011). *Stereotype Management Among Successful Black College Mathematics and Engineering Students*. Presentation and paper to be presented at the National Council for Teachers in Mathematics Annual Meeting & Expo: Geometry Constructing and Transforming Perspectives.

McGee, E. O. & Martin, D. B. (April 2011). *Stereotype Management Among Successful Black College Mathematics and Engineering Students*. Presentation and paper to be presented at American Education Research Association Annual Conference: Inciting the Social Imagination: Education Research for the Public Good. New Orleans, Louisiana

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- McGee, E. O. & Tyler, A. (April 2011). *Mathematically High Achieving African American Youth: Looking Outside In*. Presentation and paper to be presented at the American Education Research Association Annual Conference: Inciting the Social Imagination: Education Research for the Public Good. New Orleans, Louisiana
- McGee, E. O. (November 2010). *Black Teens Succeeding in Mathematics: An Investigation into Identity*. Presentation and paper presented at The National Academy of Education Annual Meeting & Fellows Retreat. Washington DC.
- McGee, E. O. (April-May 2010). *Investigating Identity and Resilience in Mathematically High-Achieving African American Youth*. Poster and paper presented at American Education Research Association Annual Conference: Understanding Complex Ecologies in a Changing World. Denver, Colorado
- McGee, E. O. (February, 2010). *Investigating Identity and Resilience in Mathematically High-Achieving African American Teens*. Presentation and paper presented at The National Academy of Education Fellows Retreat. Washington DC.
- McGee, E. O. (February, 2010). *African American High School Mathematics Success Project*. Presentation and paper presented at Responsive Teaching Agile Mind User Conference. Chicago, IL
- McGee, E. O. (July 2009). *Operationalizing Resilience in High-achieving Black College Students*. Presentation and paper presented at the Emerging Scholars Interdisciplinary Network Summer Program in Applied Multi-Ethnic Research at ICPSR, University of Michigan
- McGee, E. O. (April 2009). *Moving Beyond the "Gap-Gazing" Fetish: Exploring Mathematics Learning and Participation as Racialized Forms of Experience*. Paper presented at the American Education Research Association Annual Conference: Disciplined Inquiry: Education Research in the Circle of Knowledge, San Diego, CA
- McGee, E. O. (April 2009). *Meaning-making, Human Development and Resilience: A New Direction in Mathematics Education*. Paper presented at 2009 National Council of Teachers of Mathematics Annual Meeting & Exposition: Equity: All Means ALL, Washington, DC
- McGee, E. O. (November 2008). *Resilience Among Successful African American Mathematics and Engineering College Students*. Paper presented at the Benjamin Banneker Association's 2008 Conference on the Mathematics Teaching, Learning, and Research of African American Students, Little Rock, Arkansas
- McGee, E. O. (May 2008). *Race, Identity, and Resilience: Black College Students Negotiating Success in Mathematics and Engineering: Preliminary Results*. Paper presented at 2nd Annual Critical Race Studies in Education Conference: Towards a Critical Race Praxis in Education and Social Life, Chicago, IL
- McGee, E. O. (March 2008). *Interrogating Stereotypes, Institutional Racism, and Racialized Experiences in Mathematics Education*. Paper presented at the 2008 American Educational Research Association Annual Conference, Chicago, IL

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- McGee, E. O. (March 2008). *Writing the Mathematics Classroom: Using African American College Students' Written Words to Understand Their Mathematical Experiences*. Paper presented at the 2008 Race in the Writing Center: Towards New Theory and Praxis Annual Conference, Chicago, IL
- McGee, E. O. (April 2007). *Racialized Mathematical Experiences of Black College Students*, Paper presented at the 2007 African American and Latino Dialogue and Research Forum: Building a Community of Scholars, Chicago, IL
- McGee, E. O.. (April 2007). *When it comes to the Mathematical Experiences of Black College Students... Race Matters*. Paper presented at the 2007 American Educational Research Association, Chicago, IL
- McGee, E. (January 2007). *Mathematics Education and the Black Student: Exploring Critical Theories of Race*. Paper presented at the 2007 4th International Conference on Teacher Education and Social Justice, Chicago, IL
- McGee, E. (2006). *Black Academic Success in College*. Paper presented at the 2006 Eyes on the Mosaic Conference-Race-ing the Academy Conference, University of Illinois, Chicago
- McGee, E. (2006). *Exploring Critical Theories of Race in Mathematics Education*. Paper presented at the annual meeting of the National Council of Teachers of Mathematics, St. Louis, Missouri
- McGee, E. (2006). *Mathematically Talented African American College Students-Counter-narratives of Success*. Paper presented at the 1st Annual Education and the Public Good: Interdisciplinary Trends in Graduate Scholarship conference. Chicago, IL
- McGee, E. (2005). *Does Mathematics Success = Equity for High Achieving African American Students?* Paper presented at the Mathematics Colloquium on Diversity, Departments of Mathematics and Computer Science at Chicago State University, Chicago, IL
- McGee, E. (2005). *Social Identities of African American College Students in the Context of Mathematical Achievement*. Paper presented at The Ninth Annual Graduate and Professional Research Conference at Northwestern University: Many Minds, Many Voices, Shaping One Legacy, Evanston, IL
- McGee, E. (2005). *Afrocentric Identity as a Precursor to Understanding the Mathematical Success in African American College Students*. Paper presented at the annual meeting of American Educational Research Association Annual Meeting, Montreal, Canada
- McGee, E. (2005). *W.E.B. DuBois' Double Consciousness Revisited in the Context of Mathematical Achievement*. Paper presented at The 7th Annual Chicago Ethnography Conference: "Broadening the Scope of Ethnography" Chicago, IL
- McGee, E. (2005). *Self-Determination as Pathways to Mediating Mathematics Success in African American High School Students*. National Multicultural Conference and Summit,

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Hollywood, CA

McGee, E. (2004). *The Problem of African American Education in the 21st Century*. Paper presented at the 27th Annual Olive-Harvey College Black Studies Conference, Chicago, IL

Local and National Service

- 2011 Manuscript Reviewer, AERA 2012 Annual Meeting Reviewer for Division J - Postsecondary Education/Section 2: Student Access
- 2011 Manuscript Reviewer, *The Sociological Quarterly*
- 2010 Manuscript Reviewer, *Journal for Urban Education*
- 2010 Manuscript Reviewer, *Journal for Research in Mathematics Education*
- 2009 Manuscript Reviewer, *Journal of Research on Adolescence*
- 2009 Proposal Reviewer, National Council for Teachers of Mathematics
- 2009-Present The MathTech Project, Co-Founder and CEO. Chicago, Illinois
- 2006-Present Grant Writer, Athletes Committed to Education. Chicago, Illinois
- 2003-2010 Founder and President, The Relationship G.A.P. (Growing As People). Chicago, IL

- 2007-2008 Proposal Reviewer, Annual Association for the Study of Higher Education
- 2007 Discussant, American Educational Research Association, Chicago, Illinois
- 2000- Present Nominated as Chicago Scholarship Selection Committee Member for the National Jackie Robinson Foundation Scholarship, New York City, NY

- 1996-Present Delta Sigma Theta Sorority Incorporated: A National Public Service Organization, Washington, DC

- 2005 Ad-hoc Reviewer, *Equity & Excellence in Education*. University of Massachusetts

University Service

- 2009-present Civil Rights Group, University of Chicago

- 2007-2009 The Dissertation Associates Working Group of the Institute for Research on Race and Public Policy, UIC

- 2005 Graduate Assistant, Chancellors Committee of the Status of Blacks, UIC

- 2005-2007 Founding Member, Alliance for Latino and Black Graduate Students, UIC

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- 1997 Omicron Delta Kappa, National Leadership Honor Society
- 1997 Alpha Epsilon Lambda, Graduate Academic Excellence and Leadership Honor Society
- 1994 Tau Beta Pi, National Engineering Honor Society
- 1993 Society of Women Engineers

Active Professional Memberships

American Educational Research Association
Jackie Robinson Foundation Alumni
National Council of Teachers of Mathematics
Teachers for Social Justice
Society for the Psychological Study of Social Issues
Benjamin Banneker Association
Chicago Alumni Chapter of North Carolina A&T State University
Omicron Delta Kappa, National Leadership Honor Society
Alpha Epsilon Lambda, Graduate Academic Excellence and Leadership Honor Society

References

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Danny Martin
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University of Illinois at Chicago
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Margaret Beale Spencer
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