

Katrina K. Cunningham
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Education

2011 Quality Matters Certification in Online Course Design
2003 Ph.D. Mathematics, Saint Louis University, Saint Louis, MO
Doctoral Dissertation: "A Plancherel Formula for Homogeneous Spaces"
1992 M.A. Mathematics, University of Georgia, Athens, GA
1988 B.S. Mathematics, Louisiana State University, Baton Rouge, LA

Professional Experience

2013 - present Mathematics Program Leader, Department of Mathematics, Physics, and Science and Mathematics Education, Southern University and A&M College, Baton Rouge, LA
2010 – 2013 Chairperson, Department of Mathematics, Southern University and A&M College, Baton Rouge, LA (Appointed Interim Chairperson 2010, Elected Chairperson 2011)
2000 - present Assistant Professor of Mathematics, Southern University and A&M College, Baton Rouge, LA
1993 - 2000 Graduate Teaching Assistant at Saint Louis University, Saint Louis, MO; duties included teaching a section of lower division Mathematics (College Algebra, Intermediate Algebra, Business Calculus) and assisting a professor in teaching Calculus I or Calculus II
1992 - 1993 Instructor of Mathematics, Southern University and A&M College, Baton Rouge, LA
1988 - 1992 Graduate Assistant at University of Georgia, Athens, GA; duties included directing problem sessions for students enrolled in the Calculus sequence

Publications/Presentations

May 2003 "A Plancherel Formula for Homogeneous Spaces", (doctoral dissertation published on microfilm), University Microfilms (UMI)
February, 2006 "The Effects of the Mathematics Tutorial Clinic on Student Performance", (abstract), Spring 2006 LA/MS Section Meeting of the Mathematical Association of America, Louisiana Tech University, Ruston, LA
March 23, 2006 "How'd You Get That?! A Discussion of Problem Solving Strategies", (abstract), 2006 Julia M. Martin College of Sciences Symposium, Southern University and A&M College, Baton Rouge, LA
January, 2007 "An Explicit Plancherel Formula for Certain Completely Solvable Homogeneous Spaces", (abstract), Joint Meetings of the Mathematical Association of America and American Mathematical Society, New Orleans, LA
March 16, 2007 "A Plancherel Formula for Two Completely Solvable Homogeneous Spaces", (abstract), 2007 Meeting of the Louisiana Academy of Sciences, Baton Rouge, LA
January 2008 "Refocusing Precalculus at SUBR", poster presented at Joint Meetings of American Mathematical Society/Mathematics Association of America (AMS/MAA), San Diego, CA
January, 2011 "In Search of Pythagorean Triples", (abstract), Joint Meetings of the Mathematical Association of America and American Mathematical Society, New Orleans, LA

Other Scholarly/Creative Contributions

Spring 2008 Faculty Leader of Math Circles, Southern University Laboratory School and Southern University and A&M College, Baton Rouge, LA

Textbooks Reviewed

Tan, Soo T., Single Variable Calculus, Brooks/Cole, 2010.
Coburn, John W., College Algebra and Trigonometry, Second Edition, McGraw Hill, 2010.

Workshops/Seminars Attended

Oct. 2006 – Feb. 2007

	Southern University Faculty Leadership Development Institute
May 8, 2007	Addison Wesley MyMathLab Workshop, Southern University, Baton Rouge, LA
July 16, 2007	WileyPlus Training Session, Southern University, Baton Rouge, LA
July 2007	Casio 330 ClassPad Online Training Workshop
July 21-25, 2008	How to Run a Teachers' Circle, American Institute of Mathematics, Washington, DC
October 10, 2008	Mathematics Redesign Workshop, hosted by Hawkes Learning Systems and the University of Mississippi, University of Mississippi, Oxford, MS
July 2009	LiveText Training for Summer Faculty, Southern University, Baton Rouge, LA
February 2011	Speaking About Redesign Webinar, presented by Pearson Publishing, Southern University, Baton Rouge, LA
July 18 – 23, 2011	Research Experiences for Undergraduate Faculty Workshop, American Institute of Mathematics, Palo Alto, CA
Sept. 22, 2011	CASIO PRISM Calculator Workshop, Southern University, Baton Rouge, LA
February, 2012	Association of American College and Universities (AAC&U) Conference, General Education and Assessment: New Contexts, New Cultures, New Orleans, LA
June 2012	Association of American College and Universities (AAC&U) Institute on Integrative Learning and the Departments, University of Vermont, Burlington, VT

Teaching Experience – Courses Taught

Undergraduate

Developmental Mathematics
College Mathematics I, II
Precalculus I, II
Calculus for Business and Social Sciences
Calculus I, II, III
Introduction to Linear Algebra
Modern Algebra
Introduction to Point-Set Topology

Graduate

Abstract Algebra I, II
Computational Linear Algebra I

Departmental Service

SU MathFest	(2001 – 2010)
SU Annual District Literary Rally	(2001 – 2007, 2009 – present)
Coordinator for Departmental Undergraduate Comprehensive Examination	Summer 2009
Department Chairperson	Interim Fall 2010 – 11, Elected Spring 2011 – Fall 2013
Mathematics Program Leader	Fall 2013 – Present

Memberships Held

Member of Pi Mu Epsilon
Member of Phi Beta Kappa
Member of Phi Kappa Phi

Interests

Teaching with technology, including online teaching
How students learn, facilitated by technology