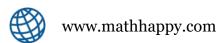


Kathleen Ambruso Acker, Ph.D.





Education

2019,2015, 2010,2009	Chester County Intermediate Unit , Downingtown PA. Act 48 Credits Continuing Education Information for Professional Personnel ID: 4942826
2003	Cabrini College , Radnor, PA Education Class for Student Teaching for Secondary Education Certificate
2000	Ph.D. Mathematics Education American University, Washington, DC Dissertation: Mathematics and Athletics, A Winning Combination?
1993	M.A. Mathematics Education Virginia Commonwealth University, Richmond, Virginia
1991	B.S. Mathematics and Philosophy University of Scranton, Scranton, Pennsylvania



Professional Positions

2017 - Present 2013 - 2017	Continuing Assistant Professor Visiting Assistant Professor Villanova University, Villanova, Pennsylvania
2012 - 2013	Adjunct Professor Villanova University, Villanova, Pennsylvania
2010, 2011	Adjunct Professor Teach for America Program American University, Washington, DC



Professional Positions - Continued

2008	Adjunct Professor Cabrini College, Radnor, Pennsylvania
2003 - 2007	Assistant Professor Cabrini College, Radnor, Pennsylvania
2003	Adjunct Professor Mercer County Community College, West Windsor, New Jersey
2002 - 2005	Adjunct Professor Villanova University, Villanova, Pennsylvania
2002 - 2003	Instructor Cabrini College, Radnor, Pennsylvania
2001 - 2002	Senior Product Development Engineer Intellifit, King of Prussia, Pennsylvania
2000 - 2001	Assistant Professor St. Joseph's University, Philadelphia, Pennsylvania
2000	Adjunct Professor College Misericordia, Dallas, Pennsylvania
1997 - 2000	Instructor American University, Washington, DC
1998, 1999	Graduate Assistant Fellow for the Institute in the History of Mathematics and Its Use in Teaching Catholic University, Washington, DC
1996, 1997	Graduate Assistant Fellow for the Institute in the History of Mathematics and Its Use in Teaching American University, Washington, DC
1995 - 1997	Graduate Teaching Assistant American University, Washington, DC
1995 - 1999	Adjunct Professor Prince George's Community College, Largo, Maryland



Professional Positions - Continued

1993 - 1995	Adjunct Professor College Misericordia, Dallas, Pennsylvania
1994 - 1995	Adjunct Professor Pennsylvania State University, Wilkes-Barre Campus, Dallas, Pennsylvania
1994 - 1995	Tutoring Coordinator for Learning Support Center Pennsylvania State University, Wilkes-Barre Campus, Dallas, Pennsylvania
1993 - 1995	Office Manager Victor T. Ambruso, MD, PC, Forty Fort, Pennsylvania
1991 - 1993	Graduate Teaching Assistant Virginia Commonwealth University, Richmond, Virginia
1991	Summer Education Enhancement Program (SEEP) Luzerne County Intermediate Unit, Wilkes-Barre, Pennsylvania



Certifications

2017	Administrative Official, Meet Ma	nager, Penn-	Del YMCA Swim
2011	Pennsylvania Certificate Mid-Lev	vel Mathemat	ics 7-9
2006	Pennsylvania Certificate Instruc	tional Level I,	Mathematics 7-12
	Praxis Information:		
	PPST Mathematics (5730) 12/2004	Score: 185	Passing: 173
	PPST Reading (5710) 12/2004	Score: 183	Passing: 172
	PPST Writing (5720) 12/2004	Score: 177	Passing: 173
	Mathematics Content Knowledge (000	61) 3/2005	
	(Top 5%)	Score: 183	Passing: 136
	Principles of Learning and Teaching G	Grades 7-12 (052	24) 6/ 2005
		Score: 181	Passing: 167
	Middle School Mathematics (0069) 1/	['] 2011	

Publications

2012 *	"Mathematics and Homeschooling." <i>Notices of the AMS</i> , Volume 59, Number 4, pp. 513-521, April 2012. Co-authors Mary W. Gray, Behzad Jalali, and Matthew Pascal.
2012	"Discovering Mathematicians in Unusual Places." <i>PCTM Magazine</i> , Volume L, Number 2, Winter 2012, pp. 12-13. Co-Author Robert McGee.
2010	"An Impromptu Experiment in Distance Learning." <i>PCTM Magazine</i> , Volume XLIX, Number 1, Fall 2010 pp. 6-7. Co-authors Robin Guerrero and Robert McGee.
2009 *	"Accommodations of Learning Disabilities in Mathematics Courses." Notices of the AMS, Volume 56, Number 9, pp. 1072-1080, October 2009. Co-authors Mary W. Gray, and Behzad Jalali"
2004 *	"Drug Levels and Difference Equations." <i>Mathematics Teacher: Focus Issue on Patterns.</i> , November 2004, Vol. 98, Issue 4, p. 266. National Council of Teachers of Mathematics, Reston, VA.
2004 *	"Agonist-dependent internalization of the angiotensin II type one receptor (AT ₁):role of C-terminus phosphorylatoin in recruitment of β -arrestins." March 2004. Regulatory Peptides 120 (2004) 141-148. Co- authors: Chris E. Kule, Vijaya Karoor, Jonathan N.E. Day, Walter G. Thomas, Kenneth M. Baker, Diem Dinh, and George W. Booz.
	*Peer Reviewed

Presentations

2014	"Fibonnacci" Malvern Public Library Part of the Fizz, Boom Read Lecture Series aimed at ages 6-12.
2012	"Connecting Algebra, Geometry, Number Theory and the History of Mathematics" Presented with Robert McGee and Carol Serotta. Pennsylvania Council of Teachers of Mathematics 61th Annual Conference, October 2012 Harrisburg, PA.
2011	"The Genius of Archimedes" Presented with Robert McGee and Carol Serotta. Pennsylvania Council of Teachers of Mathematics, 60th Annual Conference, November 2011 State College, PA.
2010	"Crockett Johnson, Painter of Theorems" Presented with Robert McGee. American Mathematical Association of Two-Year Colleges 36th Annual Conference, Poster Session, November 2010, Boston MA.
2010	"Classical Greek Mathematics in Today's Classroom" Presented with Robert McGee and Carol Serotta. Pennsylvania Council of Teachers of Mathematics, 59th Annual Conference, November 2010, Harrisburg, PA
2010	"What If Euclid Owned an iPad?" Presented with Robert McGee and Carol Serotta, Cabrini College Mathematics and Science Colloquium. October 2010, Radnor, PA.
2010	"Mathematics and The Bible" and "Mathematics and The Movies" Two internet classes were held from Pennsylvania via Skype for Valley Christian High School, located in Brownsville, TX. May 6 and May 7, 2010.
2008	"In the Footsteps of Matteo Ricci" with Robert McGee and Carol Serotta, Pennsylvania Teachers of Mathematics Association Conference, Fall 2008, Poconos, PA.
2008	"In the Footsteps of Matteo Ricci" with Robert McGee and Trevina Nesbitt, Sigma Zeta Induction Dinner, April 11, 2008, Cabrini College, Radnor, PA.,.
2005	"Religion and Mathematics: The Intersection is Not Empty" with Robert McGee and Carol Serotta, Cabrini College Mathematics and Science Colloquium. Fall 2005, Radnor, PA.

2005	"Religion and Mathematics: The Intersection is Not Empty" with Robert McGee and Carol Serotta, Pennsylvania Teachers of Mathematics Association Conference, Fall 2005, Harrisburg, PA.
2004	"Teaching with Technology." Presented at MathFest, the national summer meeting of the Mathematical Association of America, August 12, 2004, Providence, RI.
2003	"Theorems in Color." Presented with Robert McGee at MathFest the national summer meeting of the Mathematical Association of America, August 2, 2003, Boulder, CO.
2003	"Crockett Johnson: Painter of Theorems." Presented with Robert McGee at the 52 nd Annual Meeting of the Pennsylvania Council of Teachers of Mathematics, March 13, 2003, Poconos, PA.
1998	"Difference Equations and the TI-83." Presented at the PathFinder Minigrant Workshop, April 28, 1998, Prince George's Community College, Largo, MD."
1996	"Prerequisites to Reform." Presented to the Mathematical Association of America, Maryland/DC/Virginia Section Spring Meeting, April 12 & 13, 1996, Randolf Macon University, Ashland, VA.



Presented Student Research Projects

2006	Richard DiDonato II: Pizza, What is in a Slice? Presented at Southeastern Pennsylvania Consortium for Higher Education, Spring 2006
2006	Christina Gentile: Women in Mathematics. Presented at Southeastern Pennsylvania Consortium for Higher Education, Spring 2006
2003	Amanda Brown: Following Hypatia: Sofia Kovalevskaya's Mathematical Discoveries, presented at Southeastern Pennsylvania Consortium for Higher Education, Spring 2003.



Ongoing Service to Mathematics and Statistics at Villanova University 2018 - Present Course Coordinator for MAT 1500-1505-2500 2019 – MLRC Committee 2018 - Faculty Mentor 2018 - Committee on Mathematics Education 2018 – External Review Participant 2017 - Present. Advising of Math Majors. Current total is 4. 2017 – Pre-Calculus Refresher Program Referee Teaching Children Mathematics 2016 2015-Present Referee Current Issues in Education Reviewed for **College of New Rochelle** the state application for 2010 approval for their development of an Advanced Certificate in Elementary School Mathematics, for current in-service elementary teachers. 2008 Invited book review Spring 2008 on *The World of Maria Gaetana Agnesi*, Mathematician of God by Massimo Mazzotti for Convergence: Where Mathematics, History, and Teaching Interact, the online magazine for the Mathematics Association of America. Invited book review Fall 2007 on The Mathematician's Brain, David 2007 Ruelle, for Convergence: Where Mathematics, History, and Teaching Interact, the online magazine for the Mathematics Association of America. Invited book review Spring 2007 A History of Mathematics, Second 2007 Edition, Carl B. Boyer, Revised by Uta C. Merzbach for Convergence: Where Mathematics, History, and Teaching Interact, the online magazine for the Mathematics Association of America. Invited book review Spring 2005 on A Discourse Concerning Algebra: 2005 *English Algebra to 1685* by Jacqueline A. Stedall, for *Convergence*: Where Mathematics, History, and Teaching Interact, the online magazine for the Mathematics Association of America. Service while at Cabrini College 2002 - 2007 Elected Representative for Mathematics and Science to the Curriculum Committee

Served, Then Chair of Technology Committee Member of the Faculty Handbook Committee

- Faculty Liaison to the Board of Trustees, Student Development Committee
- Math Department Liaison to the Secondary Education Council.
- Conducted Academic Search for Mathematics Department
- Academic Advisor Both Majors and Freshmen
- Coordinator for Sigma Zeta, the Mathematics and Science Honor Society

Designed artwork for inaugural History and Pedagogy of Mathematics website. Published under Maiden name of Ambruso. This website design has been retired, but it is still accessible at http://www.hpm-americas.org/old/main/genindex.html

"Set Theory, Probability, and Basic Data Analysis." In-service for elementary school teachers, August 25, 1999, Janey Elementary School, Washington DC.

Strengthening of Underrepresented Minority Mathematics Achievement (SUMMA) Web Site. Biography Writer.

http://www.maa.org/summa/archive/ar_index.htm

Martha A. Brown James Ashley Donaldson Fern Y. Hunt

William Anthony Hawkins, Jr. Raymond Lewis Johnson

Tepper L. Gill

Gladys Lee Gaskin Whitehead



1999

1998

Clearances

The Pennsylvania Child Abuse History Clearance;
The Pennsylvania State Police Criminal Record Check
Pennsylvania State Resident Affidavit in place of FBI Check

2011 The FBI Criminal Record Check: No Prior Arrest



2018 YMCA Volunteer of the Year

2010 Princeton Anthology of Best Writing on Mathematics, (Fall 2010).

Included article "Accommodations of Learning Disabilities in

Mathematics Courses." previously published in *Notices of the AMS*, Volume 56, Number 9, pp. 1072-1080, October 2009. Co-authors:

Mary W. Gray, and Behzad Jalali.

2005 Award of Excellence from the Educational Testing Service (ETS). Scored

in Top 15% of all test takers nationwide on Mathematics Content

Knowledge Praxis Exam.



College Courses Taught

Developmental Mathematics Finite Mathematics Pre-Calculus
Basic Algebra Statistics Business Calculus
College Algebra Business Statistics Applied Calculus

Problem Solving Probability Calculus I
Financial Mathematics Linear Algebra Calculus II
Technical Mathematics Discrete Mathematics Calculus III

History of Mathematics

History of Mathematics Online Course Elementary Mathematical Models

Teach for America: Advanced Exploration of Secondary Mathematics

Praxis Prep: PPST Mathematics (5730) Praxis Prep: Mathematics Content (0061)



Computer Skills

Maple HTML, CSS Visual Basic

SPSS Excel, Word SQL

TI Graphing Calculators Adobe Photoshop, Illustrator Dreamweaver Mathematica Front Page, Paint CorelDraw

Geometer's Sketchpad Zoom



2018 - Present **Board Member, West Chester Area YMCA**Volunteer of the Year

2013 - Present Volunteer for West Chester YMCA Swim Team, The Marlins

Deck Parent Console Operator

Meet Manager Certified

Administrative Official (Until 2020)

Liaison between the swim team and the YMCA Management.

2012- Present **Elementary School**

• Worked with elementary teachers to develop curriculum materials to celebrate Mathematics Awareness Month

• Organized a clothing swap-open to all members of the KDM community. This was done to ensure all students had coats, hats and mittens for winter.

 Organized Children Helping Children- A Sock Drive to help homeless children.

Organized Candy Collection for Active Military Personnel

 Organized Collection of Art Supplies and Toys for children at CHOP.

• Contributed to gift bag creation for the homeless

2010 Story Time Volunteer

Malvern Public Library, Malvern, Pennsylvania

2007-2009 **Chester County Mom of Multiples:** Worked with low income

parents to help with literacy and job training.

2002-2007 Cabrini College

Dav of Service: Philabundance; St. Joseph's Home for Children

Sigma Zeta Community Service: Walk for MS 2005