
Maria E Lorenz

Curriculum Vitæ

Department of Mathematics
Temple University
1805 N. Broad St.
Philadelphia, PA 19122-6094

(215) 204-7852
maria.lorenz@temple.edu
www.math.temple.edu/~angelone

CURRENT POSITION **Professor of Instruction and Associate Chair,**
Department of Mathematics, Temple University

EDUCATION	Degree	Year	Institution
	Ph.D., Mathematics <i>Dissertation:</i> Jones Index for Rings <i>Advisor:</i> Susan Montgomery	1991	University of Southern California
	M.S., Applied Mathematics <i>Thesis:</i> Test for Primality using $GL_2(\mathbb{Z}/n\mathbb{Z})$ <i>Advisor:</i> Kevin S. McCurley	1987	University of Southern California
	B.A., Mathematics	1985	North Adams State College North Adams, MA

PROFESSIONAL EXPERIENCE **Professor of Instruction in Mathematics,** Temple University, 2016 – Present
Teaching Associate Professor, Temple University, 2008 – 2016
Teaching Assistant Professor, Temple University, 2001 – 2008
Lecturer, Temple University, 1998 – 2001
Visiting Assistant Professor, Ursinus College, 1995 – 1998
Assistant Professor, University of Pittsburgh, 1992 – 1995
Visiting Lecturer, University of Southern California, Summers 1991, 1992
Lecturer, University of Texas at Austin, 1991 – 1992
Teaching Assistant, University of Southern California, 1985 – 1991

- HONORS**
- Great Teacher Award**, Temple University, 2022
 - TPSE Leadership Institute Fellow**, Transforming Post-secondary Education in Mathematics, 2021–2022
 - James P. Crawford Award for Distinguished Teaching**, Eastern PA and Delaware Section of the Mathematical Association of America, 2018
 - Lindback Award for Distinguished Teaching**, Temple University, 2017
 - Outstanding Faculty Service Award**, Temple University, 2016
 - College of Science Technology Award for Student Mentoring**, Temple University, 2013
 - Steven Petchon Distinguished Teaching Award**, Temple University, 2007
- GRANTS**
- Mathematical Confluences: A partnership between Temple University and Philadelphia High School for Girls** (with Irina Mitrea), \$6,000 from Mathematical Association of America, Tensor-SUMMA Program, March 2018 – May 2021
 - Girls and Mathematics** (with Irina Mitrea), \$15,000 from US Navy, National Defense Education Program, July 2013
 - MAA Tensor Grant** (with Irina Mitrea), \$6000 from Mathematical Association of America, March 2012 and March 2013
 - Math Circle Minigrants** (with Irina Mitrea),
\$2000 from Mathematical Sciences Research Institute, January 2012
\$1500 from Mathematical Sciences Research Institute, January 2013
 - Sonia Kovalevsky Day Awards**
(with Meredith Hegg) Association for Women in Mathematics, March 2012
(with Jessie Hamm) Association for Women in Mathematics, March 2013
- MEMBERSHIPS**
- American Mathematical Society
 - Mathematical Association of America
 - Association for Women in Mathematics

TEACHING**• Courses Taught:**

- ◇ **Temple University, 2001–2022**
 - Teaching in Higher Education: Math* (graduate)
 - Topics in Modern Algebra*
 - Modern Algebra*
 - Introduction to Modern Algebra*
 - Basic Mathematical Concepts*
 - Linear Algebra*
 - Differential Equations*
 - Calculus I, II, and III*
 - Honors Calculus I and II*
 - Precalculus*
 - Introduction to Statistics*
 - Elements of Mathematical Thought*
 - College Math*

- ◇ **Ursinus College, 1993–1996**
 - Real Analysis I*
 - Number Theory*
 - History of Mathematics*
 - Abstract Algebra II*
 - Modern Geometry*
 - Linear Algebra*
 - Calculus I, II, and III*

- ◇ **University of Pittsburgh, 1992–1993**
 - Calculus*
 - Honors Calculus*

- ◇ **University of Texas at Austin, 1991-1992**
 - Calculus*
 - Linear Algebra*
 - Algebraic Structures*

- ◇ **University of Southern California 1991**
 - Business Calculus*
 - Linear Algebra and Differential Equations*

• Other Teaching Activities:

- ◇ **Talking About Teaching Seminar**, organizer, Department of Mathematics, Temple University, varying semesters 2012–2021
- ◇ **Faculty Fellow**, Center for the Advancement of Teaching, Temple University, 2016–2018
- ◇ **Calculus Coordinator**, Temple University, 2004–2013
- ◇ **Provost’s Teaching Academy**, Temple University (inaugural cohort), Summer 2010
- ◇ **Winter Faculty Conference**, participant, Temple University, Center for the Advancement of Teaching, multiple years

SERVICE

- **Associate Chair**, Department of Mathematics, Temple University (July 1, 2022 – present)
- **Director of Undergraduate Studies**, Department of Mathematics, Temple University (July 1, 2013 – June 30, 2022)
- **Committees** (Temple University):
 - ◇ **Department of Mathematics**
 - Undergraduate Committee: 2007–present
 - Executive Committee: 2013–present, ex-officio member
 - ◇ **College of Science and Technology**
 - Undergraduate Committee: 2013–present
 - Merit Committee: 2021
 - Non-tenure Track Faculty Promotion Committee: 2018–2020
 - Teaching Awards Committee: various years (anonymous committee)
 - ◇ **University**
 - Placement Committee–Mathematics Advisory Group: 2018–2021
 - Adjunct Faculty Teaching Awards Committee: 2018–2021
- **Committees** (Professional Organizations)

- ◇ **Association for Women in Mathematics**
MAA Liaison Committee, February 2018–present
- **Outreach:**
 - ◇ **Sonia Kovalevsky Mathematics Day for Girls**, co-organizer with various others, 2012–2021
 - ◇ **Partnership with Philadelphia High School for Girls** (with Irina Mitrea), various events including bootcamps, tutoring, visits to campus, field trips, 2017–2021
 - ◇ **Franklin Institute** (with Irina Mitrea), cryptography workshop, March 2019
 - ◇ **Math Circle** (co-organizer with Irina Mitrea), 2012–2015
 - ◇ **Girls Get Math at ICERM**, Assistant Director (Irina Mitrea, Director), July 2014
 - ◇ **Girls and Mathematics Summer Program**, Assistant Director (Irina Mitrea, Director), July 2012, July 2013
- **Other Service** (Temple University)
 - ◇ **Center for the Advancement of Teaching**
Panelist for Graduate Student Orientation, 2012–2019
Faculty Fellow, August 2016 – August 2018
Session presenter for Diamond Peer Teacher Training, 2012–2017
 - ◇ **Representative Faculty Senate member**, 2008–2014
 - ◇ **Undergraduate Math Club Advisor**, 2011–2015
- **Conference Organizing:**
 - ◇ **Mathematical Outreach: Engagement Opportunities and Best Practices** (with Irina Mitrea and Katherine Ott) , Joint Mathematics Meetings Special Session, January 2021
 - ◇ **2019 Philadelphia Undergraduate Mathematics Conference Series** ((with others) at Temple University, April 2019
 - ◇ **2018 MAA EPaDel Section Spring Meeting** (with others) at Temple University, March 2018
 - ◇ **2015 Philadelphia Undergraduate Mathematics Conference Series** (with Irina Mitrea) at Temple University, April 2015

- ◇ **Hopf Algebra and Related Topics: A Conference in Honor of Professor Susan Montgomery** (with Robert Guralnick), Los Angeles, California, February, 2009.
- ◇ **Rings and Representations** (with Martin Lorenz), special session at the American Mathematical Society conference at Temple University Center City, April 4–5, 1998.

TALKS AND PRESENTATIONS

- **Featured Speaker:** presented *Proving Myself: A Personal Journey* at the Mathematical Association of America’s Eastern Pennsylvania and Delaware Section’s Fall 2019 meeting, DeSales University, November 2019
- **Presenter:** on the *Mathematical Confluences - A Partnership Between Temple University and Philadelphia High School for Girls* program at the Joint Mathematics Meetings MAA Outreach Pavilion Session, January 2020 and at the Joint Mathematics Meetings MAA Mathematical Outreach Programs poster session, January 2019.
- **Poster Session Presenter:** on the *Mathematical Confluences - A Partnership Between Temple University and Philadelphia High School for Girls* program at the Joint Mathematics Meetings MAA Mathematical Outreach Programs poster session, January 2019.
- **Presenter:** on the Girls and Mathematics Summer Program at the Joint Mathematics Meetings Special Session, “Effective Strategies and Programs for Mentoring Women and Minorities in Mathematics”, January 2013.
- **Poster Session Presenter:** on the Girls and Mathematics Summer Program at the Joint Mathematics Meetings session on Math Outreach Programs.

PUBLICATIONS

- “Jones index and fixed rings of simple algebras”, *Journal of Algebra* **160** (1993) 461-491.
- “Applications of Jones index to rings with Artinian quotients”, *Journal of Algebra* **167** (1994) 348-360.
- (with Martin Lorenz) “On crossed products of Hopf algebras”, *Proc. Amer. Math. Soc.* **123** (1995) 33-38.
- (with Martin Lorenz) “Observations on crossed products and invariants of Hopf algebras”, *Archiv der Mathematik* **63** (1994) 119-127.