

Louiza Fouli

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Louiza Fouli website

EDUCATION

Ph. D. in Mathematics	Purdue University	August 2006
M. Sc. in Mathematics	Purdue University	December 2001
B. Sc. in Mathematics	University of Cyprus	June 1999

EMPLOYMENT/ POSITIONS HELD

Professor	New Mexico State University	August 2022 –
Digital Faculty Fellow	New Mexico State University	July 2021 – April 2022
Associate Professor	New Mexico State University	August 2015 – August 2022
Assistant Professor	New Mexico State University	August 2009 – August 2015
Research Member	MSRI, Berkeley	Fall 2012
Instructor (Postdoctoral Fellow)	University of Texas, Austin	August 2006 – August 2009
Visiting Scholar (Under AWM Grant)	University of Kansas	Summers 2008, 2009
Graduate Teaching Assistant	Purdue University	Fall 1999 – August 2006

RESEARCH INTERESTS

Commutative Algebra and interactions with Algebraic Geometry, Homological Algebra and Computational Algebra.

PUBLICATIONS

21. Alessandra Costantini, Louiza Fouli, Kriti Goel, Kuei-Nuan Lin, Haydee Lindo, Maral Mostafazadehfar, *Algebraic invariants of the special fiber ring of ladder determinantal modules*, submitted, available at [arXiv:2507.2216 \[math.AC\]](#).
20. Michael DiPasquale, Louiza Fouli, Arvind Kumar, and Ștefan O. Tohăneanu, *Generalized Hamming weights and symbolic powers of Stanley-Reisner ideals of matroids*, submitted, available at [arXiv:2406.13658 \[math.AC\]](#).
19. Louiza Fouli, Jonathan Montaña, Claudia Polini, and Bernd Ulrich, *The core of monomial ideals*, *Journal of Algebra and Number Theory*, 19 (2025), 1463–1494.
18. Ela Celikbas, Emilie Dufresne, Louiza Fouli, Elisa Gorla, Kuei-Nuan Lin, Claudia Polini, and Irena Swanson, *Rees algebras of sparse determinantal ideals*, *Trans. Amer. Math. Soc.*, 377 (2024), no.4, 2317–2333.
17. Alessandra Costantini, Louiza Fouli, and Jooyoun Hong, *Residual intersections and core of modules*, *J. Algebra* 629 (2023), 227–246.
16. Louiza Fouli, Tài Huy Hà, and Susan Morey, *Regular sequences on squares of monomial ideals*, *São Paulo J. Math. Sci.* 17 (2023), no. 1, 122–146.

Publications, continued

15. Louiza Fouli, Huy Tài Hà, and Susan Morey, *Depth of powers of squarefree monomial ideals*, Advances in Mathematical Sciences, 161–171, Assoc. Women Math. Ser., 21, Springer, Cham, 2020.
14. Louiza Fouli, Huy Tài Hà, and Susan Morey, *Initially regular sequences and depths of ideals*, J. Algebra 559 (2020), 33–57.
13. Louiza Fouli and Bruce Olberding, *Generators of reductions of ideals in a local Noetherian ring with finite residue field*, Proc. Amer. Math. Soc. 146 (2018), 5051–5063.
12. Louiza Fouli, Paolo Mantero, and Yu Xie, *Chudnovsky’s Conjecture for very general points in $\mathbb{P}_k^N$* , J. Algebra 498 (2018), 211–227.
11. Louiza Fouli, *Reduction numbers and balanced ideals*, Commutative Algebra and Noncommutative Algebraic Geometry, I, Math. Sci. Res. Inst. Publ., 67 Volume II (2015), 169–180.
10. Louiza Fouli and Susan Morey, *Lower bounds for the depth of powers of edge ideals*, J. Algebraic Combin., 42 (2015), 829–848.
9. Louiza Fouli and Kuei-Nuan Lin, *Rees algebras of square-free monomial ideals*, J. Commut. Alg. 7 (2015), 25–54.
8. Louiza Fouli and Susan Morey, *Minimal reductions and cores of edge ideals*, with J. Algebra 364 (2012), 52–66.
7. Louiza Fouli, Janet Vassilev, and Adela Vraciu, *A formula for the $\ast$ -core of an ideal*, Proc. Amer. Math. Soc. 139 (2011), 4235–4245.
6. Louiza Fouli, Craig Huneke, *What is a system of parameters?*, Proc. Amer. Math. Soc. 139 (2011), 2681–2696.
5. Louiza Fouli, Claudia Polini, and Bernd Ulrich, *Annihilators of Graded Components of the Canonical Module and the Core of Standard Graded Algebras*, Trans. Amer. Math. Soc. 362 (2010), 6183–6203.
4. Louiza Fouli and Janet Vassilev, *The cl -core of an ideal*, Math. Proc. Camb. Phil. Soc. 149 (2010), 247–262.
3. Louiza Fouli, Claudia Polini, and Bernd Ulrich, *The core of ideals in arbitrary characteristic*, Michigan Math. J. 57 (2008), 305–319.
2. Louiza Fouli, *Computing the core of ideals in arbitrary characteristic*, J. Algebra 319 (2008), 2855–2867.
1. Louiza Fouli, *A study on the core of ideals*, Ph. D. thesis under the direction of Professor Bernd Ulrich, 2006.

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GRANTS

Current

AMS-Simons Travel Grant for Arvind Kumar,
New Mexico State University, Mentor (Grant Manager), Amount: \$5,000 2024–2026

Past

NSF EHR/HSI Grant: NMSU-MÁS, Grant, Co P.I., Amount: \$3,000,000 2023–2025

NSF Grant for Southwest Local Algebra Meeting 2025, Co P.I., Amount: \$20,000 2025

Summer Research in Mathematics grant at Simon Laufer

Mathematical Sciences Institute, Co P.I. July 2024

AMS-Simons Travel Grant for Alessandra Costantini,

Oklahoma State University, Mentor (Grant Manager), Amount: \$5,000 2021–2024

NSA Grant for Southwest Local Algebra Meeting, Co P. I., Amount: \$20,368 2024

NSF Grant for Southwest Local Algebra Meetings, Co P.I. 2023, 2020, 2018, 2017,
2015, 2013

NSA Grant for Southwest Local Algebra Meetings, Co P. I. 2022, 2019, 2016,
2014, 2012

Summer Research in Mathematics grant at Mathematical
Sciences Research Institute, Berkeley, P.I.

Summer 2020 (canceled)

Summer Collaborators grant at Institute of Advanced Study, Princeton

Summer 2020 (declined)

Research in Groups grant at International Center for Mathematical Sciences, UK

Summer 2020 (declined)

Simons Foundation Collaboration Grant, P. I. , Amount: \$35,000

2012 – 2018

College of Arts and Sciences Travel Grant

Fall 2023, 2018, Summer 2013

NSF Grant for Crest Center, Sr Psn, New Mexico State University

2014 – 2019

College of Arts and Sciences Course Release Award

Fall 2012

NSF Grant for Southwest Local Algebra Meeting 2011, P. I.

March 2011

AWM Travel Grant Award

October 2010

AWM Mentor Grant Award

March 2009

AWM Mentor Grant Award

March 2008

AWM Travel Grant Award

January 2006

Women in Science Travel Grant Award, Purdue University

December 2005

Purdue Research Foundation Grant

2004 – 2005

National Science Foundation Grant

Summers 2002, 2003, 2004,
2006, and Fall 2003

AWARDS AND SCHOLARSHIPS

Graduate Student Award for Outstanding Teaching, Purdue University

2006, 2003

Excellence in Teaching Award in Mathematics, Purdue University

2005, 2002

Outstanding Graduate Instructor, Purdue University

2005 - 2006

Award for the highest academic performance in Mathematics, University of Cyprus June 1999

Stelios Pichorides Award for the highest

academic performance in Mathematics, University of Cyprus

June 1999

Cyprus America Scholarship (Fulbright)

October 1998

Makarios III Foundation Scholarship, Nicosia, Cyprus

1995 – 1999

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STUDENTS SUPERVISED

Doctoral students

1. Le Tran, Ph.D. 2024, Dissertation: Algebraic invariants of monomial ideals, currently: Lecturer, Department of Mathematics, Texas State University.
2. Raymond Paulino, Ph.D. 2017, Dissertation: Minimal reductions of Edge Ideals', currently: Assistant Professor at University of Guam Division of Mathematical and Computer Sciences.

Masters students

1. Mac Hayes, Masters 2025, New Mexico State University.
2. Le Tran, Masters 2019, New Mexico State University.
3. Kristina Brantley, Masters 2012, New Mexico State University.
4. Meredith Anderson, Masters 2011, New Mexico State University.

Undergraduate students mentored

1. Emmy Marra, Bachelor of Science, 2019, New Mexico State University. Deans Undergraduate Award for Excellence, New Mexico State University, Spring 2019.

CONFERENCES ORGANIZATION

Arizona-New Mexico Symposium on Commutative Algebra and Its Interactions: Geometric Combinatorics, at New Mexico State University, December 2025, co-organizing with Michael DiPasquale and Jonathan Montaña.

AMS Sectional Meeting, Special Session: Commutative algebra and connections to combinatorics, in San Antonio, Texas, September 2024, co-organized with Michael DiPasquale and Arvind Kumar.

AMS Sectional Meeting, Special Session: Recent Developments in Commutative Algebra' in San Francisco, California, May 2024, co-organized with Michael DiPasquale and Arvind Kumar.

SLMath special semester in Commutative Algebra: Connections introductory workshop, Spring 2024, co-organized with Christine Berkesch, Maria Evelina Rossi, and Alexandra Seceleanu.

Southwest Local Algebra Meeting (SLAM):

Arizona State University (March 2025), University of Oklahoma (February 2024), University of North Texas (March 2023), Baylor University (February 2022), Tulane University (March 2020), University of Texas, El Paso (February 2019), University of Arkansas (February 2018), University of New Mexico (March 2017), Texas State University (February 2016), Oklahoma State University (February 2015), Texas A&M University (March 2014), University of Arizona (March 2013), Texas Tech University (March 2012), New Mexico State University (March 2011), University of Texas, Arlington (March 2010).

AMS Sectional Meeting, Special Session: Interactions between Combinatorics and Commutative Algebra, at University of Texas, El Paso, Texas, September 2022, co-organized with Christopher Eur and Jonathan Montaña.

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CONFERENCES ORGANIZED, CONTINUED

AMS Sectional Meeting (virtually), Special Session: Commutative Ring Theory, formerly at University of New Mexico, Albuquerque, October 2021, co-organizing with Janet Vassilev.

AMS Sectional Meeting (virtually), Special Session: Recent developments in Commutative Algebra, formerly at El Paso, Texas, September 2020, co-organized with Jonathan Montaño.

3rd Congress of PRIMA, Special Session: Commutative Algebra: Homological and Combinatorial Methods, Oaxaca, Mexico, August 2017.

AMS Sectional Meeting, Special Session: Interactions in Commutative Algebra, University of New Mexico, April 2014 .

AWM Research Symposium 2013, Special Session: Commutative Algebra March 2013.

AMS Sectional Meeting, Special Session: Trends in Commutative Algebra, University of New Mexico, April 2010.

AMS Sectional Meeting, Special Session: Commutative Algebra, Module and Ideal Theory, Waco, Texas, October 2009.

OTHER SYNERGISTIC ACTIVITIES

Referee for various journals

Reviewer for Mathematical Reviews

2012-Present

Reviewer for Zentralblatt

2007-Present

Co-Lead: Women in Commutative Algebra II workshop

Trento, Italy

October 2023

Associate Editor

Rocky Mountain

Journal of Mathematics

2017-2022

Co-organizer: Graduate Women in Mathematics Program

New Mexico State University

2010-2014

Panelist for: Connections for Women: Joint Workshop
on Commutative Algebra and Cluster Algebras

MSRI

August 2012

Panelist for Women in Natural Sciences Workshop:

The Search for a Tenure Track Position

University of Texas, Austin

June 2009

Panelist for Inquiry-Based Learning,

Joint Mathematics Meeting

Washington, D.C.

January 2009

Organizer: Algebra Seminar

University of Texas, Austin

Fall 2006-Spring 2007

Organizer: Graduate Student

Commutative Algebra Seminar

Purdue University

Fall 2003-August 2006

Teaching Assistant Peer Mentor

Purdue University

Fall 2002-August 2006

Leadership Team: Women in Science Program

Purdue University

Fall 2002-August 2006

Orientation of New Teaching Assistants

Purdue University

August 2003

Co-organizer: Graduate Student Seminar

Purdue University

Fall 2000-Spring 2001

Graduate Student Representative

Purdue University

May 2000-May 2001

President of the Hellenic Student Association

Purdue University

April 2005-April 2006

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INVITED TALKS

AMS Special Session	Tulane University	October 2025
Math Congress of the Americas	Miami	July 2025
U. Arkansas 50th Spring Lecture Series	University of Arkansas	May 2025
RayFest: a conference in celebration of the mathematics of Raymond C. Heitmann	University of Nebraska	April 2025
AMS Special Session	University of Kansas	March 2025
STEM+ Education Research Conference, poster	New Mexico State University	October 2024
TATERS seminar	Boise State University	March 2024
Virtual Commutative Algebra Seminars	IIT Bombay	October 2022
Algebra and Geometry Seminar	University of New Mexico	October 2022
AMS Special Session	virtual (formerly at Denver)	May 2022
AMS Special Session	virtual (formerly at Rhode Island)	March 2021
AMS Special Session	Joint Mathematics Meeting (virtual)	January 2021
AMS Special Session	virtual (formerly at Penn State University)	October 2020
Conference on Commutative Algebra and its Interaction with Algebraic Geometry	University of Notre Dame	June 2019
AWM Research Symposium	Rice University	April 2019
AMS Special Session	Auburn University	March 2019
AMS Special Session	Portland State University	April 2018
AMS Special Session	University of North Texas	September 2017
Commutative Algebra Seminar	Purdue University	October 2016
AMS-AWM Special Session	Joint Mathematics Meeting, Seattle	January 2016
AMS Special Session	Georgetown University	March 2015
Colloquium Talk	University of Arkansas	September 2014
Algebra Seminar	University of Arkansas	September 2014
AMS Special Session	University of New Mexico	April 2014
AMS Special Session	University of California, Riverside	November 2013
CMS Scientific Session	Halifax, Canada	June 2013
Colloquium Talk	University of Texas, El Paso	February 2013
Workshop on Representation Theory, Homological Algebra, and Free Resolutions	Mathematical Sciences Research Institute	February 2013
Poster Session Presenter for		
Connections for Women: Joint Workshop on Commutative Algebra and Cluster Algebras	Mathematical Sciences Research Institute	August 2012
AMS Special Session	University of Kansas	March 2012
Algebra Seminar	University of Genoa, Italy	December 2011
AMS Special Session	University of Utah	October 2011
AMS Special Session	University of Nebraska	October 2011
Colloquium Talk	University of California, Riverside	April 2011
AMS Special Session	Georgia Southern University	March 2011
Discrete Mathematics Seminar	Texas State University	January 2011
Commutative Algebra Seminar	Purdue University	April 2010
AMS Special Session	University of Kentucky	March 2010
TTU Algebra Seminar	Texas Tech University	February 2010
Colloquium Talk	New Mexico State University	November 2009
AMS Special Session	Florida Atlantic University	October 2009
Algebra Seminar	University of Nebraska	September 2009
Colloquium Talk	Fairfield University	February 2009

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INVITED TALKS, CONTINUED

Colloquium Talk	Texas Tech University	February 2009
Colloquium Talk	New Mexico State University	January 2009
Colloquium Talk	University of Texas	January 2009
Commutative Algebra Seminar	Purdue University	January 2009
AMS Contributed Papers Session	Joint Mathematics Meeting, Washington DC	January 2009
TTU Algebra Seminar	Texas Tech University	November 2008
Colloquium Talk	Baylor University	November 2008
GSU-USC Commutative Algebra Seminar	University of South Carolina	November 2008
Algebra Mini-Workshop	University of Kansas	July 2008
Colloquium Talk	Tulane University	February 2008
Algebra Seminar	Texas A&M University	November 2007
Algebra Seminar	University of Texas, Arlington	November 2007
Commutative Algebra Seminar	Purdue University	October 2006
Colloquium Talk	University of Cyprus	September 2006
Algebra Seminar	University of Texas, Austin	April 2006
Colloquium Talk	Cleveland State University	March 2006
AMS Special Session	University of Notre Dame	April 2006
AMS Special Session	Florida International University	April 2006
AWM Poster Session	San Antonio, Texas	January 2006
AMS Special Session	University of Nebraska	October 2005
Week of Algebra	Universidade Federal de Pernambuco, Brazil	July 2004

CONFERENCES ATTENDED

STEM+ Education Research Conference	New Mexico State University	October 2024
AMS Special Session	San Antonio, Texas	September 2024
Southwest Local Algebra Meeting	University of Oklahoma	February 2024
Introductory Workshop: Commutative Algebra	SLMath	January 2024
Connections Workshop: Commutative Algebra	SLMath	January 2024
Women in Commutative Algebra II	CIRM, Trento, Italy	October 2023
Southwest Local Algebra Meeting	University of North Texas	March 2023
AMS Special Session	University of Texas, El Paso	September 2022
AMS Special Session	virtual (formerly at Denver)	May 2022
Southwest Local Algebra Meeting	Baylor University	February 2022
AMS Special Session	virtual (formerly at Albuquerque)	October 2021
AMS Special Session	virtual (formerly at Rhode Island)	March 2021
AMS Special Session	Joint Mathematics Meeting (virtual)	January 2021
AMS Sectional Meeting	virtual (formerly at Penn State)	October 2020
AMS Sectional Meeting	virtual (formerly at El Paso)	September 2020
Southwest Local Algebra Meeting 2020	Tulane University	March 2020
Women in Commutative Algebra	Banff International Research Station	October 2019
Conference on Commutative Algebra and its Interaction with Algebraic Geometry	University of Notre Dame	June 2019
AWM Research Symposium	Rice University	April 2019
AMS Sectional Meeting	Auburn University	March 2019
Southwest Local Algebra Meeting 2019	University of Texas at El Paso	February 2019
AMS Sectional Meeting	Portland State University	April 2018

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AMS Sectional Meeting Commutative Algebra and its Interactions with Algebraic Geometry (in honor of Craig Huneke's birthday)	University of North Texas	September 2017
AMS-AWM Special Session	Ann Arbor, Michigan	July 2016
Frobenius Operators and Cartier Algebras	Joint Mathematics Meeting, Seattle	January 2016
AMS Sectional Meeting	Georgia State	March 2015
Southwest Local Algebra Meeting 2015	Georgetown University	March 2015
AMS Sectional Meeting	Oklahoma State University	February 2015
Southwest Local Algebra Meeting 2014	University of New Mexico	April 2014
AMS Sectional Meeting	Texas A&M University	March 2014
Commutative Algebra and its Interactions with Algebraic Geometry	University of California, Riverside	November 2013
CMS Summer Meeting	Luminy, France	July 2013
The Commutative Algebra of Singularities in Birational Geometry: Multiplier Ideals, Jets, Valuations, and Positive Characteristic Methods	Halifax, Canada	June 2013
AWM Research Symposium	MSRI	May 2013
Southwest Local Algebra Meeting 2013	Santa Clara	March 2013
Representation Theory, Homological Algebra, Free Resolutions	University of Arizona	March 2013
Combinatorial Commutative Algebra and Applications, Joint Introductory Workshop:	MSRI	February 2013
Cluster Algebras and Commutative Algebra Connections for Women: Joint Workshop on Commutative Algebra and Cluster Algebras	MSRI	December 2012
AMS Sectional Meeting	MSRI	August 2012
Southwest Local Algebra Meeting 2012	MSRI	August 2012
AMS Sectional Meeting	University of Kansas	March 2012
AMS Sectional Meeting	Texas Tech University	March 2012
AMS Sectional Meeting	University of Utah	October 2011
MAGIC'11	University of Nebraska	October 2011
AMS Sectional Meeting	Purdue University	May 2011
Southwest Local Algebra Meeting 2011	Georgia Southern University	March 2011
Commutative Algebra and its Interactions with Algebraic Geometry	New Mexico State University	March 2011
Local Rings and Local Study of Algebraic Varieties	Luminy, France	November 2010
MAGIC'10	ICTP, Trieste, Italy	May 2010
AMS Sectional Meeting	University of Notre Dame	April 2010
AMS Sectional Meeting	University of New Mexico	April 2010
Southwest Local Algebra Meeting 2010	University of Kentucky	March 2010
AMS Sectional Meeting	University of Texas, Arlington	March 2010
AMS Sectional Meeting	Florida Atlantic University	October 2009
Kumunu 2009	Baylor University	October 2009
PASI 2009, in honor of Wolmer Vasconcelos	University of Nebraska	September 2009
GSU-USC Commutative Algebra Seminar	Olinda, Brazil	August 2009
Joint Mathematics Meeting	University of South Carolina	April 2009
GSU-USC Commutative Algebra Seminar	Washington, DC	January 2009
Conference in honor of Melvin Hochster	University of South Carolina	November 2008
Conference in honor of Luchezar Avramov	University of Michigan	July 2008
Conference in honor of Robin Hartshorne	University of Nebraska	May 2008
	University of Illinois at Chicago	April 2008

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Conferences attended, continued

AMS Section Meeting	Bloomington, Indiana	April 2008
Advances in Algebra and Geometry	MSRI, Berkeley	April 2007
AIM, Integral Closure, Multiplier Ideals and Cores	Palo Alto	December 2006
AMS Section Meeting	University of Notre Dame	April 2006
AMS Section Meeting	Florida International University	April 2006
Joint Mathematics Meeting	San Antonio, Texas	January 2006
AMS Section Meeting	University of Nebraska	October 2005
MAGIC'05	University of Notre Dame	October 2005
Conference in honor of Phil Griffith	University of Illinois	September 2005
Wiegandfest	University of Nebraska	May 2005
30th Arkansas Spring Lecture Series	University of Arkansas	April 2005
Week of Algebra	Pernambuco, Brazil	July 2004
XVIII Escola de Algebra	IMECC-UNICAMP, Brazil	July 2004
School of Algebra	ICTP, Trieste, Italy	June 2004
Lipman-fest	Purdue University	May 2004
Bluegrass Algebra Conference	University of Kentucky	April 2003
Introductory Workshop on Commutative Algebra	MSRI, Berkeley	September 2002
Current Trends in Commutative Algebra	Levico, Italy	June 2002
1st Joint AMS and UMI Meeting	Pisa, Italy	June 2002
AMS Central Section Meeting	University of Michigan	March 2002

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TEACHING EXPERIENCE

At New Mexico State University

Graduate courses

Advanced Linear Algebra	Fall 2025, 2023, 2019
Homological Algebra	Fall 2014, Spring 2023, 2021
Graduate Algebra I	Spring 2025, 2023, Spring 2020, Fall 2018, 2013
Graduate Algebra II	Fall 2025, Spring 2014
Elementary Number Theory	Fall 2022, 2020, Spring 2018
Topics Course: Algebra II	Spring 2019
Topics in Algebra–Graph Theory	Spring 2017, Spring 2010
Special Topics: Cohen–Macaulay Rings	Fall 2011

Undergraduate courses

Introduction to Higher Mathematics (IBL Method)	Spring 2022, 2019
Matrix Theory and Applied Linear Algebra	Fall 2021
Introduction to Modern Algebra	Fall 2024, 2022, 2019, 2016, 2011, Spring 2012
Calculus and Analytic Geometry, II	Fall 2020, 2018, Spring 2021, 2020, 2019, 2013, 2012
Calculus and Analytic Geometry, I	Fall 2016, 2009, Spring 2018, 2017
Introduction to Ordinary Differential Equations	Fall 2014, 2010, Spring 2015
Introduction to Linear Algebra	Spring 2025, 2014
Introduction to Analysis	Fall 2013
Calculus for Biological and Management Sciences	Spring 2011

At University of Texas, Austin

Introduction to Algebraic Structures	Spring 2009
Introduction to Number Theory (IBL Method)	Spring 2009
Differential Calculus	Fall 2008, 2007
Introduction to Real Analysis (IBL Method)	Spring 2008, Fall 2007
Introduction to Real Analysis	Spring 2007
Integral Calculus	Spring 2007, Fall 2006
Discrete Mathematics	Fall 2006

At Purdue University

Abstract Algebra (Graduate Course), T.A.	Fall 2005
Introduction to Analysis II, Lecturer	Spring 2004
Introduction to Analysis I, Lecturer	Spring 2002, Fall 2002
Algebra and Trigonometry I, Lecturer	Fall 2001, 2000
Plane Analytic Geometry and Calculus II, T.A.	Spring 2001
Linear Algebra and Differential Equations, T.A.	Spring 2000, Summer 2000
Honors Calculus I, T.A.	Fall 1999

MEMBERSHIPS

American Mathematical Society, since 2000
Association for Women in Mathematics, since 2000