

ANA BERRIZBEITIA

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CURRICULUM VITAE

EDUCATION

- **Ph.D, Mathematics**, University of Iowa, Iowa City, IA - August 2018
Thesis: “Invariant Rings of Taft Algebras Acting on Path Algebras”
Thesis Advisor: Ryan Kinser
Course Work GPA: 4.04/4.00
- **Graduate Certificate in College Teaching**, University of Iowa, Iowa City, IA - May 2018
- **MSRI Graduate Student Summer School**, July 11, 2016 - July 22, 2016
Topic: An Introduction to Character Theory and the McKay Conjecture
- **M.A. Mathematics**, University of Texas at Austin, Austin, TX - December 2012
Course Work GPA: 3.66/4.00
- **M.A. Minor in Education**, University of Texas at Austin, Austin, TX - December 2012
- **BS, Mathematics with Honors**, The University of Texas at Austin, Austin, TX - May 2009
Mathematics GPA: 3.94/4.00, *General GPA:* 3.73/4.00
Undergraduate Honors Thesis Advisor: Dr. Geir Helleloid
- **Research Experience for Undergraduates MSRI-UP**, Berkeley, CA, June 2008 - July 2008
Research Director: Professor Victor Moll

AWARDS AND FELLOWSHIPS

- **The University of Iowa’s Outstanding Teaching Assistant Award**, 2016-2017
About the award: The Outstanding TA Award is a prestigious honor, which is granted once a year to the top 1% of all teaching assistants at the university.
- **Post-Comprehensive Research Fellowship**, University of Iowa, Fall 2017
About the award: Competitive award granted to excelling graduate students to focus on research without teaching duties for one semester.
- **Sloan Mini Grant**, University of Iowa, Summer 2017
About the award: Travel grant for graduate students who are presenting their research at a conference.
- **Summer Graduate Fellowship**, University of Iowa, Summer 2017
About the award: Competitive award granted to excelling graduate students to focus on research without teaching duties for one summer.
- **NSF Research Assistantship**, University of Iowa, Spring 2017
About the award: Research assistantship from Professor Bleher’s personal NSF grant to support one student for one semester without teaching duties.
- **GAANN Fellowship**, University of Iowa, Fall 2013 - Spring 2015
About the award: Competitive award granted to promising incoming graduate students providing support without teaching duties during the first two years.

- **VIGRE Fellowship**, University of Wisconsin at Madison, 2009
About the award: Competitive award granted to promising incoming graduate students providing support without teaching duties for one semester.
- **American Physical Society (APS) Minority Scholarship**, 2006
About the award: Undergraduate scholarship for minorities pursuing physics degrees.
- **Marcel and Conrad Schlumberger Scholarship**, 2005-2009
About the award: Undergraduate scholarship.

TEACHING

- **Teaching Assistant**, University of Iowa August 2015 - present
Iowa City, IA
Duties included: creating weekly worksheets, leading recitation sections, assigning homework, grading exams and quizzes, holding reviews, and holding office hours.
 - Abstract Algebra, August 2016 - December 2016
Received a 5.81/6.00 score on TA evaluations
 - Geometry, August 2016 - December 2016
Received a 5.53/6.00 score on TA evaluations
 - Calculus I for Business, January 2016 - May 2016
Received a 5.50/6.00 score on TA evaluations
 - Calculus I, August 2015 - December 2015
Received a 5.43/6.00 score on TA evaluations
- **Research Mentor**, Camp Euclid, 2013-2015
Duties included: Mentoring advanced high school students in mathematical research.
- **Teaching Assistant**, University of Texas at Austin August 2011 - December 2012
Austin, TX
Duties included: creating weekly worksheets, leading recitation sections, assigning homework, grading exams and quizzes, holding reviews, and holding office hours.
 - Calculus I, August 2012 - December 2012
Received a 4.8/5.00 score on TA evaluations
 - Calculus II, January 2012 - May 2012
Received a 4.3/5.00 score on TA evaluations
 - Abstract Algebra I, August 2011 - December 2011
- **Graduate Student Assistant for MSRI-UP**, June 2012 - July 2012
Berkeley, CA
Research Director: Professor Matthias Beck
 - Supervised and guided the research of two undergraduate groups in combinatorics and number theory projects
 - One of the projects led to the work in my second publication in 2015.
- **Teaching Assistant**, University of Wisconsin, August 2009 - December 2009
Madison, WI
Duties included: creating weekly worksheets, leading recitation sections, assigning homework, grading exams and quizzes, and holding office hours.
 - Calculus I, August 2009 - December 2009
Received a 4.67/5.00 score on TA evaluations

- **Professional Tutoring**
Austin, TX, Iowa City, IA, and Online
 - WyzAnt Inc., September 2010 - present
 - * Tutored over 1300 hours for WyzAnt Inc.
 - * Earned a five star rating from nearly 500 reviewers
 - * Received a national distinction from WyzAnt for excellence
 - * Experienced teaching all levels of undergraduate math, and first year graduate math
 - Cram Crew Inc., January 2010 - August 2010
 - Austin Tutors, August 2010 - December 2012
 - Private independent tutoring
 - * Estimated 5000 hours
- **University Tutoring**, University, 2005-present
Austin, TX, Iowa City, IA, and Online
 - University of Iowa Math Lab
 - University of Iowa Tutors
 - University of Texas Learning Center
 - University of Texas Emerging Scholars Student Assistant
 - University of Texas Residential Hall Program

RESEARCH INTERESTS

- Hopf Algebras
 - Actions of Hopf Algebras on Path Algebras
 - Quantum Groups
- Invariant Theory
- Combinatorics

PUBLICATIONS

- Parking Functions, Shi Arrangements, and Mixed Graphs (with M. Beck, M. Dairyko, C. Rodriguez, A. Ruiz and S. Veeneman)
American Mathematical Monthly 122 (2015), 660-673.
- The p -adic Valuation of Stirling Numbers (with L. Medina, A. Moll, V. Moll and L. Noble)
Journal for Algebra and Number Theory Academia 1, 2010, 1-30.

TALKS AND CONFERENCES

- (Regular Speaker) University of Iowa, August 2013 - Present
 - Algebra Seminar
 - Invariant Theory Seminar
 - Derived and Cluster Categories Seminar
 - Topology Seminar
 - Topology Reading Seminar
- (Poster) “Invariant rings of Taft algebras acting on path algebras,” Algebra Extravaganza Conference, Temple University, July 2017
- (Invited speaker) “Parking Functions, Shi Arrangements and Mixed Graphs,” Heartland Partnership, Grinnell College, May 2017

- (Invited speaker) “Parking Functions, Shi Arrangements and Mixed Graphs,” at Heartland Partnership, St. Ambrose College, April 2017
- (Participant) Geometric Methods in Representation Theory, Columbia, MO, November 2016
- (Participant) Field of Dreams Conference, Math Alliance Organization, St. Louis, MO, November 2016
- (Participant) 3rd Annual Midwest WIMS Conference, Chicago, IL, March 2015
- (Invited speaker) “Parking Functions, Shi Arrangements and Mixed Graphs,” Heartland Partnership, Bradley College, February 2015
- (Participant) Texas Geometry and Topology Conference, UT Austin, November 2014
- (Speaker) “Parking Functions, Shi Arrangements and Mixed Graphs,” USTARS Conference, UC Berkeley, April 2014
- (Speaker) “p-Adic Valuations of Stirling Numbers of the Second Kind,” American Mathematical Society Joint Math Meetings, Washington DC, January 2009
- (Poster) “p-Adic Valuations of Stirling Numbers of the Second Kind,” SACNAS Conference, Salt Lake City, UT, 2008

SERVICE

- Chair of Graduate Student Invariant Theory Seminar Organizing Committee (2017 - present)
- Math department representative for the Campaign to Organize Graduate Students Union (2015-2017)
- Primary organizer of Sonia Kovalevsky Day Outreach (2017)
- Mathematics Graduate Board Heartland Intercollegiate Liaison (2016-2017)
- Member of Sonia Kovalevsky Day Organizing Committee (2016)
- Member of Lucas Elementary Day Organizing Committee (2016)

LANGUAGES

- English (Fluent)
- Spanish (Fluent)
- French (Advanced)

EMPLOYMENT STATUS US Citizen