

ADRIANA MORALES MIRANDA

PERSONAL DATA

EMAIL: adriana6@illinois.edu
CURRENTLY: PhD student at the University of Illinois at Urbana-Champaign
OFFICE: 110 Altgeld Hall, University of Illinois at Urbana-Champaign

EDUCATION

CURRENTLY	University of Illinois at Urbana Champaign <i>P.h.D. in Mathematics</i>
AUGUST 2019	University of Illinois at Urbana Champaign <i>Masters in Mathematics</i> Current
FALL 2013- SPRING 2017	University of Puerto Rico , Rio Piedras, Puerto Rico <i>Bachelor's in Science Degree</i> Major: Computational Mathematics GPA: 3.89, HONOR: Magna Cum Laude
FALL 2015	<i>Mathematics Advanced Study Semester</i> , Pennsylvania State University , State College, Pennsylvania Courses taken: Lie Groups, Introduction to Algebraic Geometry and Classical Mechanics and Calculus of Variations GPA: 3.17

TEACHING EXPERIENCE

SPRING 2019	Merit TA for Math 231: Calculus 2; Ranked Outstanding TA
FALL 2018	Merit TA for Math 220: Calculus 1; Ranked Outstanding TA The Merit program focuses on helping minority students to excel at the University, it emphasizes on collaborative learning in small group settings.
SPRING 2018	TA for Math 220: Calculus 1; Ranked Outstanding TA
FALL 2017	TA for Math 220: Calculus 1; Ranked Excellent TA

PUBLICATIONS

- 2017 | L. Bozeman and A. Morales. No oscillations in the Michaelis-Menten approximation of the dual futile cycle under a sequential and distributive mechanism. *SIURO*. 10. 2017. DOI: <http://dx.doi.org/10.1137/16S015565>
- 2016 | R. Doughty, J. Gonda, A. Morales, B. Reiswig, J. Reiswig, K. Slyman and D. Pritikin. Arranging kings k-dependently on hexagonal chessboards. *Involve*. 9(4). 2016. 699-713 DOI: [10.2140/involve.2016.9.699](https://doi.org/10.2140/involve.2016.9.699)

RESEARCH EXPERIENCE

- SUMMER 2019 | PI4: Program for Interdisciplinary and Industrial Internships at University of Illinois at Urbana Champaign
TA for research groups on Bias and homophily in professional hierarchies and models of social group competition.
- SUMMER 2018 | PI4: Program for Interdisciplinary and Industrial Internships at University of Illinois at Urbana Champaign
Research on algorithms for Analytic Combinatorics.
- SUMMER 2016 | Research Experience for Undergraduates at Texas A&M, College Station, Texas
Research on algebraic methods in computational Biology
- SUMMER 2015 | Internship at the National Institute of Standards and Technology
Research on the availability of prime numbers for digital signature algorithms.
- SUMMER 2014 | Summer Undergraduate Mathematical Science Research Institute (SUMSRI) at Miami University, Oxford, Ohio
Research on combinatorial chessboard problems.

SCHOLARSHIPS AND AWARDS

- AWARDED 2017-18 | Sloan Scholar: Alfred P. Sloan Foundation's Minority Ph.D. (MPHD) Program
- OCTOBER 2016 | Award for outstanding poster presentation
Awarded at Society for Advancement of Chicanos/Hispanics and Native Americans in Science Conference 2016.
- AWARDED 2014-15 | Claude Shannon Scholarship: Scholarship for Excellence in Computer Science and Mathematics
- AWARDED 2016-17 | Claude Shannon Scholarship: Scholarship for Excellence in Computer Science and Mathematics

SCHOOLS AND WORKSHOPS

- JULY 2019 | deal i.i. Workshop
at Colorado State University
Workshop on how to use deal i.i.
- JUNE 2017 | PCMI/IAS Undergraduate Summer School
at Park City, Utah
Three weeks of summer school on the topic of Random Matrices.
- OCTOBER 2016 | Modern Math Workshop
at SACNAS, Long Beach, CA
Two day workshop that includes a mini-course on mathematical modeling in Ecology and its applications in graph theory.
- MAY 2016 | Interdisciplinary Workshop for Undergraduate Students
at North Carolina State University, Raleigh, NC
Week-long workshop that provided an introduction to applied mathematical and statistical research in the areas of computational neuroscience and forensics.

LANGUAGES

SPANISH: Native Language
ENGLISH: Fluent

COMPUTER SKILLS

Knowledge in: C++, MATHEMATICA, L^AT_EX, R, Python

INTERESTS AND ACTIVITIES

- **Professional:** cancer research, cellular automata, differential equations, mathematical biology, math modeling, numerical analysis, partial differential equations

CONFERENCES

- NOVEMBER 2016 | Field of Dreams Conference
Saint Louis, MO
Attendee
- OCTOBER 2016 | SACNAS
Long Beach, CA
Poster Presentation; research done at Texas A&M University: *Stability of Intracellular Iron Homeostasis: A Mathematical Proof*
- MARCH 2016 | Gainesville International Number Theory Conference
University of Florida, Gainesville, FL
Attendee
- MARCH 2016 | Seminar of Research in the Mathematical Sciences
Universidad de Puerto Rico, Humacao, PR
Poster Presentation; research done at NIST: *Counting Large Prime Numbers*
- OCTOBER 2015 | Graduate Research Opportunities for Women in Mathematics
Northwestern University, Evanston, IL
Attendee
- AUGUST 2015 | Geometry Labs United Conference
University of Illinois at Urbana-Champaign, Champaign, IL
Attendee
- APRIL 2014 | Latinos in the Mathematical Sciences Conference
Institute for Pure and Applied Mathematics, Los Angeles, CA
Attendee
- JANUARY 2014 | Joint Mathematics Meetings
San Antonio, TX
Poster Presentation; research done at SUMSRI: *k-dependence on hexagonal boards*