

José Ángel Islas Anguiano

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Villa Universidad
Culiacan, Sinaloa, Mexico 80010

EDUCATION

- *Ph.D.* , Mathematics (2015) University of North Texas
Adviser: Dr. Pieter Allaart
Dissertation Topic: Optimal strategies for stopping near the top of a sequence
- *Master of Science*, Mathematics (2009) University of Texas - El Paso
Project: A numerical comparison of two globalization strategies
using an Interior-Point Algorithm
- *Bachelor of Science*, Mathematics (2006) Universidad Autonoma de Sinaloa, Mexico
Minor: Statistics

PUBLICATIONS

- Islas, Jose A. *A sharp bound for winning within a proportion of the maximum of a sequence*, accepted for publication in Boletín de la Sociedad Matemática Mexicana (July 2018), preprint at arXiv:1709.02416
- *Oscillation criteria for stopping near the top of a random walk*, submitted for publication (2017), preprint at arXiv:1711.08857v1
- Allaart, P.C. and Islas, Jose A. (2016) *A sharp lower bound for choosing the maximum of an independent sequence*, Journal of Applied Probability, 53(4), pp. 1041 – 1051.

LANGUAGES

- Spanish and English - fluent. German - Intermediate.

CONSULTING

- Data scientist. Risk modelling and customer clusterization for Coppel in Culiacan, Sinaloa, Mexico, Fall 2016
- Statistical Analysis and Model Input Verification Consulting Services for Denton Municipal Electricity, June 2016
- Modeling Moody's credit scores for municipalities in the State of Mexico using ordinal regression, Spring 2014

TEACHING EXPERIENCE

- Visiting Assistant Professor, Universidad Autonoma de Sinaloa* Fall 2016 – Present
- Courses taught: Calculus II, Introduction to Calculus, Linear Programming, Calculus (An introduction to analysis), Numerical Analysis, Superior Algebra, Programming in C, Algebra and Trigonometry.

Adjunct Professor, University of North Texas

Spring 2016

- Courses taught: Calculus II, Linear Algebra, Survey of Math.

Teaching Fellow, University of North Texas

Fall 2009 – Fall 2015

- Courses taught: Business Calculus, Survey of Math, Probability Models, Calculus I, Elementary Probability and Statistics, College Algebra.
- Recitation instructor for: Calculus I.
- Special tutor for: Discrete Mathematics and Real Analysis.
- Grader for: Intro to Real Analysis, Real Analysis, Abstract Algebra, Numerical Analysis, Differential equations, Advanced Statistics and Advanced Study of the Secondary Mathematics Curriculum.
- Related experience: Taught large classes (up to 108), supervised TA's, supervised graders for Probability Models and Elementary Statistics and use of Blackboard and MyMathLab.

Teaching Assistant, University of Texas - El Paso

Fall 2007 – Spring 2009

- Courses taught: Pre-Calculus.
- Grader for: Pre-Calculus, Calculus I and II.
- Laboratory Instructor for: Astronomy.

SELECTED PRESENTATIONS

Conference Talks:

- *Half the Max*, Conference on Stochastic Processes and their Applications (SPA-15), Oxford, England, Summer 2015
- *Stopping near the top of a random walk*, Spring Central AMS Sectional Meeting, Lubbock, Texas, Spring 2014

Conference Posters:

- *Stopping near the top of a random walk*, Conference on Stochastic Processes and their Applications (SPA-14), Buenos Aires, Argentina, Summer 2014
- *On optimization techniques for the one-dimensional seismic problem*, SACNAS Research Expo, El Paso, Texas, Spring 2008

CONFERENCES ATTENDED

- Joint Mathematics Meetings, San Antonio, Texas, Spring 2015
- RMMC 2008: Parallel Methods for Partial Differential Equations, Laramie, WY, Summer 2008

WORKSHOPS

- Latin American R/BioConductor Developers Workshop, Summer 2018
- Computational methods using C, CIMAT, Guanajuato, Mexico, Summer 2007
- Calculus workshop, CIMAT, Guanajuato, Mexico, Summer 2004

SCHOLARSHIPS AND AWARDS

- UNT-DHISCO Big Data Challenge Honorable mention, Fall 2015
- Toulouse travel fund to SPA-15, \$300, Summer 2015
- NSF travel fund to SPA-14, \$1500, Summer 2014
- UAEM-UNT Seed grant, \$5000. Modeling Moody's credit scores, Spring 2014
- CONACYT Tuition scholarship 2010 – 2014
- Programa doctores jovenes UAS 2007 – 2015

SERVICE

- Geometry instructor for math olympiad students in Sinaloa, Spring 2017

COMPUTER SKILLS

- Software expertise: Maple, LaTeX, Microsoft Office
- Programming languages: R, C++, Java, Matlab, Fortran