Alejandro Aguilar

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Website: https://github.com/akaguilar
GitHub: https://github.com/akaguilar

ACADEMIC POSITIONS

Rice University May 2020-December 2021

Graduate Student, Graduate Research Assistant

Department of Statistics

University of Texas-Pan American November 2013-May 2014

Graduate Student, Graduate Research Assistant

Department of Mathematics

EDUCATION

Rice University August 2022

PhD in Statistics

Rice University December 2021

Master of Science in Statistics

University of Texas-Pan American August 2014

Master of Science in Mathematical Science

University of Texas-Pan American

July 2014

Bachelor of Science in Applied Mathematics

University of Texas-Pan American May 2011

Graduate Certificate in Communication Training and Consulting

University of Michigan-Ann Arbor August 2006

Bachelor of Arts in Economics, Minor in German

PUBLICATIONS

<u>Aguilar, A</u>. and Ensor, K. (2020) Topology Data Analysis Using Mean Persistence Landscapes in Financial Crashes. *Journal of Mathematical Finance*, **10**, 648-678. https://doi.org/10.4236/jmf.2020.104038.

HONORS AND AWARDS

National GEM Consortium Associate Fellow (August 2021-Present) Department of Defense SMART Semi-Finalist (2020)

TEACHING EXPERIENCE

Rice University August 2017-May 2020

Graduate Student, Graduate Teaching Assistant

Department of Statistics

September 2015-August 2017

University of Texas-Pan American Graduate Student, Assistant Instructor Department of Mathematics

PROFESSIONAL SERVICE

Outreach and Mentorship

- Google-Rice University REU in Data Science, Summer Mentor (May 2021-July 2021)
- Rice University-Freshman Math Mentorship, Mentor (September 2020-May 2021)
- University of Texas-Pan American, Experimental and Geometry Lab (EAGL), Volunteer Research Assistant/Volunteer Outreach Assistant (October 2013-April 2015)

Professional Memberships

- American Statistical Association (2019-present)
- Society for Advancement of Chicanos/Hispanics and Native Americans in Science (September 2012-September 2014)
- Society of Industrial and Applied Mathematics (September 2012-August 2014)

OTHER EXPERIENCE

IDEA Public Schools

Student Information Systems Data Analyst

Sandia National Laboratories	December 2021-Present
Intern - TITANS Software – R&D Graduate Year-Round	
Pacific Northwest National Laboratory (PNNL) PhD Intern	June 2021-August 2021
NASA Johnson Space Center Summer Intern	June 2018-August 2018