# **Alejandro Aguilar**

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ACADEMIC POSITIONS	
Rice University Graduate Student, Graduate Research Assistant Department of Statistics	May 2020-December 2021
University of Texas-Pan American Graduate Student, Graduate Research Assistant Department of Mathematics	November 2013-May 2014
EDUCATION	
Rice University PhD in Statistics	August 2022
Rice University Master of Science in Statistics	December 2021
University of Texas-Pan American Master of Science in Mathematical Science	August 2014
University of Texas-Pan American Bachelor of Science in Applied Mathematics	July 2014
University of Texas-Pan American Graduate Certificate in Communication Training and Consulting	May 2011
University of Michigan-Ann Arbor Bachelor of Arts in Economics, Minor in German	August 2006

# **PUBLICATIONS**

Aguilar, A. 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 Graduate Student, Graduate Teaching Assistant Department of Statistics

August 2017-May 2020

#### **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**

Sandia National Laboratories Intern - TITANS Software – R&D Graduate Year-Round	December 2021-August 2022
Pacific Northwest National Laboratory (PNNL) PhD Intern	June 2021-August 2021
NASA Johnson Space Center Summer Intern	June 2018-August 2018
IDEA Public Schools Student Information Systems Data Analyst	September 2015-August 2017