Daniel **Gonzalez**

Mathematician · Computer Scientist

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Education

Florida State University   *Tallahassee, FL*

M.Sc. in Mathematics   *Aug 2017 – May 2019*

- Research interests include Machine/Deep Learning, Optimization, and their applications to finance.
- Recipient of the Dean's Graduate Scholarship.

Florida International University   *Miami, FL*

B.Sc. in Mathematics & Computer Science (*cum laude*)   *Aug 2012 – May 2016*

- Recipient of the National Hispanic Scholarship (*full tuition & fees*) and the Florida Bright Futures Academic Scholarship.
- McNair Fellow, 12th Cohort.

Miami-Dade College   *Miami, FL*

A.A. in Mathematics (*summa cum laude*)   *Jun 2010 – Apr 2012*

- Full-time dual enrollment through the School for Advanced Studies.
- National Hispanic Scholar and AP Scholar with honor.

Skills

Programming	C++, Python, Haskell
Machine Learning	NumPy, SciPy, scikit-learn
Operating Systems	UNIX/MacOS, Linux
Languages	English, Spanish

Honors & Awards

2016	**Award for Math Achievement**, FIU College of Arts & Sciences	*Miami, FL*
2015	**2nd Place Award**, FIU McNair Scholars Research Conference	*Miami, FL*
2014	**3rd Place Trophy & Prize**, HackFSU 24-hour Hack-A-Thon	*Tallahassee, FL*
2014	**3rd Place Prize**, FIU Spring Programming Competition	*Miami, FL*
2013	**3rd Place**, FIU Fall & Spring Programming Competitions	*Miami, FL*

Extracurriculars

IAQF 2019 Student Competition   *Tallahassee, FL*

Team Captain   *Jan 2019 – Mar 2019*

- Managed a team of five other Math graduate students at the MS and PhD levels.
- Helped design SVMs and Long Short-Term Memory neural networks for predicting credit spreads using scikit-learn and Matlab.
- Mentored other team members, organized progress meetings, and delegated tasks to sub-teams.
- Wrote the final report to explain our methodology, findings, and conclusions.

Research

Monotone Catenary Degree in Numerical Monoids   *Hilo, HI*

PURE Math Research Program at the University of Hawaii at Hilo   *Jun 2015 – Aug 2015*

- Co-authored "Monotone Catenary Degree in Numerical Monoids" with C. Wright and J. Zomback.
- Funded by the National Security Agency and the National Science Foundation.

Work Experience

Florida State University, Dept. of Mathematics   *Tallahassee, FL*

Graduate Teaching Assistant   *Aug 2017 – Present*

- Recitation Instructor for Discrete Math, Instructor of Record for Precalculus.
- Lab TA for Finite Math, Liberal Arts Math, Trigonometry, Precalculus, and Business Calculus.

Florida International University, Dept. of Computer Science   *Miami, FL*

Programming Team Member   *Aug 2013 – Jan 2015*

- Competed at the ICPC 2013 and ICPC 2014 Southeastern Regional programming competitions.
- Participated in several local programming competitions sponsored by Ultimate Software.
- Completed a competitive programming course with fellow team members.