Daniel **Gonzalez**

Mathematician · Computer Scientist

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Education

University of Notre Dame *Notre Dame, IN*
Ph.D in Computer Science *Jun 2019 – Present*

- Research interests include Machine Learning, Computer Vision, and applications in Biometrics.
- Researcher in the Computer Vision Research Lab under Dr. Adam Czajka.
- Recipient of the Dean's Fellowship.

Florida State University *Tallahassee, FL*
M.Sc. in Mathematics *Aug 2017 – May 2019*

- Concentration in Financial Mathematics, Computational Mathematics, and Probability Theory.
- Recipient of the Dean's Graduate Scholarship.

Florida International University *Miami, FL*
B.Sc. in Mathematics & B.Sc. in 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 – Wolfson Campus.
- National Hispanic Scholar and AP Scholar with honor.

Research

Contactless Fingerprint Collection *South Bend, IN*
Computer Vision Research Lab @ the University of Notre Dame *Jun 2019 – Present*

- Testing the comparative effectiveness of contactless and contact-based fingerprint sensors.
- Developing an experimental iPhone-based contactless fingerprint recognition pipeline using Structure from Motion.

Monotone Catenary Degree in Numerical Monoids *Hilo, HI*
PURE Math Research Program @ 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.

Skills

Programming	C, C++, Python, Julia, Haskell
Machine Learning	NumPy, OpenCV, scikit-learn
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*

Work Experience

University of Notre Dame, Dept. of Mathematics *South Bend, IN*
Graduate Teaching Assistant *Aug 2019 – Present*

- TA for Discrete Mathematics.
- Responsible for grading, office hours, and holding some tutorial sections.

Florida State University, Dept. of Mathematics *Tallahassee, FL*
Graduate Teaching Assistant *Aug 2017 – May 2019*

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