

Daniel Gonzalez

MATHEMATICIAN · COMPUTER SCIENTIST

☎ (+1) 786-205-0050 | 📧 daniel-gonzalez-cedre | 🌐 daniel-gonzalez-cedre | ✉ daniel.gonzalez.cedre@pm.me

Education

University of Notre Dame

PH.D IN COMPUTER SCIENCE

Notre Dame, IN

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

M.Sc. IN MATHEMATICS

Tallahassee, FL

Aug 2017 – May 2019

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

Florida International University

B.Sc. IN MATHEMATICS & B.Sc. IN COMPUTER SCIENCE (*cum laude*)

Miami, FL

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

A.A. IN MATHEMATICS (*summa cum laude*)

Miami, FL

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

COMPUTER VISION RESEARCH LAB @ THE UNIVERSITY OF NOTRE DAME

South Bend, IN

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

PURE MATH RESEARCH PROGRAM @ THE UNIVERSITY OF HAWAII AT HILO

Hilo, HI

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

GRADUATE TEACHING ASSISTANT

South Bend, IN

Aug 2019 – Present

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

Florida State University, Dept. of Mathematics

GRADUATE TEACHING ASSISTANT

Tallahassee, FL

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.