

# Daniel Gonzalez

MATHEMATICIAN · COMPUTER SCIENTIST

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## Education

### University of Notre Dame

PH.D IN COMPUTER SCIENCE

Notre Dame, IN

Jun 2019 – May 2022

- Research interests include Graph Theory, Graph Mining, Formal Languages, and Machine Learning.
- Recipient of the Deans' Fellowship.
- Advised by Dr. Tim Weninger.

### Florida State University

M.SC. IN MATHEMATICS

Tallahassee, FL

Aug 2017 – May 2019

- Concentration in Financial Mathematics.
- 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, 12<sup>th</sup> 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

### Infinity Mirror Test for Graph Generators

ARTIFICIAL INTELLIGENCE LAB @ THE UNIVERSITY OF NOTRE DAME

Notre Dame, IN

Dec 2019 – Present

- In collaboration with Satyaki Sikdar and Dr. Tim Weninger.
- Developing the Infinity Mirror test as a metric for evaluating the quality and robustness of graph generators.

### Contactless Fingerprint Collection

COMPUTER VISION RESEARCH LAB @ THE UNIVERSITY OF NOTRE DAME

Notre Dame, IN

Jun 2019 – Present

- In collaboration with Aidan Draper and Dr. Adam Czajka.
- Sponsored by West Virginia University.

### 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.

## Honors & Awards

2016 **Award for Math Achievement**, FIU College of Arts & Sciences

Miami, FL

2015 **2<sup>nd</sup> Place Award**, FIU McNair Scholars Research Conference

Miami, FL

2014 **3<sup>rd</sup> Place Trophy & Prize**, HackFSU 24-hour Hack-A-Thon

Tallahassee, FL

## Work Experience

### University of Notre Dame, Dept. of Computer Science & Engineering

GRADUATE TEACHING ASSISTANT

Notre Dame, IN

Aug 2019 – Present

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