Email

fhenaoceballos@uiowa.edu

Address

800 W. Benton, Apt 113 A, Iowa City, IA 52246

Phone

Skills

(787) 487-2332

Mathematical expertise Analytical and problemsolving

Programming: R, Python, Minitab, HTML

Statistical consulting

Critical thinking and attention to detail

FERNEY HENAO-CEBALLOS

A Ph.D. student always looking to learn new skills, take on extra responsibilities, and grow professionally.

EDUCATION

Iowa City, United States Aug 2023 - Present

Doctor of Philosophy in Biostatistics The University of Iowa

GPA: 3.78

Expected graduation: May 2027

Master of Science in Mathematics, Statistics Option Mayagüez, Puerto Rico University of Puerto Rico at Mayagüez Jan 2020 - Jun 2023

> **GPA:** 4.00/4.00 Passed Probability Qualifying Exam: January 2021

Thesis: Censored zero-inflated Poisson regression model: predicting success in undergraduate math courses Advisor: Raúl E. Macchiavelli, PhD

Bachelor of Mathematics

Jan 2014 - Jun 2019 **GPA: 3.69**

Thesis: Optimal stopping time on productive process with

Teaching Assistant

University of Antioquia

finite horizon Advisor: Ricardo Restrepo-López, PhD

Mayagüez, Puerto Rico

EDUCATION WORK EXPERIENCE

Jan 2020 - Present

Medellín, Colombia

University of Puerto Rico at Mayagüez · Teaching of Pre-Calculus I and Statistics.

Department of Mathematical Sciences

- · Teaching assistant for Calculus II, Pre-Calculus I and
- Pre-Calculus II. • Editor for lecture notes on Pre-Calculus I.

· Teaching in the Math Strengthening Institute (CRRSAA

- · Tutoring in the Math Support Center (CRRSAA grants).
- Tutoring in the Summer Math Camps for freshmen (CRRSAA grants).

Aug 2020 - Present

Mayagüez, Puerto Rico

Teaching Assistant

· Student training for math competitions. · Creation and review of problems for national and

Puerto Rico Mathematics Olympiads (OMPR)

- international math competitions. · Grading math Olympiad exams.
- · Judge in school math competitions. · Contributing editor in the annual edition of OMPR books.
- **High School Teacher** Colegio El Divino Niño

Teaching of Algebra & Trigonometry.

Rionegro, Colombia

Jul 2019 - Dec 2019

Medellín, Colombia

Jan 2016 - Dec 2018

Teaching Assistant

Antioquia Government Scholarships

Antioquia.

· Tutoring in the Math Support Center of the University of

· Research Assistant at The University of Iowa (Lyme Disease).

RESEARCH EXPERIENCE

· Generalized linear models, censored data, zero-inflated data, and

Graduate Research

- computation in statistics. · Predict success in introductory math classes.
- · Perception of math competitions.
- Probability, stochastic processes, Markov processes, optimal strategies.

https://doi.org/10.1007/s11858-022-01414-x

PUBLICATIONS

Bulletin des VSMP, 147, 15-19.

of the University of Antioquia.

Medellín, Colombia, May 2019.

Undergraduate Research

of mathematics competitions on teachers and their classrooms in Puerto Rico, Switzerland and the UK. ZDM - Springer, 54, 1009-1025.

Akveld, M., & **Henao, F.** (2021). The impact of mathematics competitions in schools, a comparative study between Puerto Rico, Switzerland and the UK.

Akveld, M., Cáceres, L., Crawford, D., & Henao, F. (2022). The perceived impact

Cáceres, L., & **Henao, F.** (2021). Mathematics competitions, a perspective from Puerto Rican teaching. Espacio Matemático, 2, 68-82. DOI: 10.48082/espmat-

v02n01a21p06. Cáceres, L., Colón, O., Gutiérrez, D., Henao F., Jiménez, J. A., López, S. M., Ortega, J. S., Portnoy, A., & Vélez, A. (2021). Problems and Solutions: Mathematics Olympiads in Puerto Rico 2020-2021. University of Puerto Rico

Henao, F. (2019). Optimal stopping time on productive process with finite

PRESENTATIONS "The perceived impact of mathematics competitions on teachers and their

classrooms in Puerto Rico, Switzerland and the UK." Mathematical Sciences Research Seminar, Costa Rica Institute of Technology, San José, Costa Rica,

horizon [Undergraduate thesis, University of Antioquia]. Institutional Repository

"The perceived impact of mathematics competitions on teachers and their classrooms in Puerto Rico, Switzerland and the UK." XXXVII Interuniversity

August 2022.

CONFERENCES ATTENDED

Puerto Rico, 2022.

Rico, 2020.

Cervia, Italy, 2022. (Online)

Antwerp, Belgium, 2021. (Online)

Publications.

Mathematical Sciences Research Seminar, Mayagüez, Puerto Rico, February 2022. "Optimal stopping time on productive process with finite horizon." Undergraduate Thesis Defense, VII Symposium in Exact and Natural Sciences,

The 2022 SACNAS National Diversity in STEM Conference, San Juan, Puerto Rico, 2022. XXXVII Interuniversity Mathematical Sciences Research Seminar, Mayagüez,

XXX Annual Kangaroo Meeting of the Association Kangourou sans Frontières,

XXIX Annual Kangaroo Meeting of the Association Kangourou sans Frontières,

XXVIII Annual Kangaroo Meeting of the Association Kangourou sans Frontières, Switzerland, 2020. (Online)

XXXV Interuniversity Mathematical Sciences Research Seminar, Cayey, Puerto

VII Symposium in Exact and Natural Sciences, Medellín, Colombia, 2019.

CERTIFICATIONS

Distance Education Certificate, Division of Continuing Education and Professional Studies of the University of Puerto Rico at Mayagüez (2021).

REFERENCES Raúl E. Macchiavelli, PhD

University of Puerto Rico at Mayagüez Email: raul.macchiavelli@upr.edu

Relationship: Graduate Advisor

Professor and Dean of the College of Agricultural Sciences

Luis F. Cáceres-Duque, PhD

Director of the Puerto Rico Mathematics Olympiads

Relationship: Research Group and OMPR Director Omar Colón-Reyes, PhD

University of Puerto Rico at Mayagüez

Professor of the Department of Mathematical Sciences

University of Puerto Rico at Mayagüez Email: luis.caceres1@upr.edu

Professor and Chair of the Department of Mathematical Sciences

Email: omar.colon4@upr.edu Relationship: Graduate Assistantship Supervisor