Email

fhenaoceballos@uiowa.edu

Address

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

Phone (787) 487-2332

Skills

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

Mayagüez, Puerto Rico

Jan 2020 - Jun 2023

Medellín, Colombia

Jan 2014 - Jun 2019

Doctor of Philosophy in Biostatistics University of Iowa

GPA.

Thesis:

Expected graduation: May 2027

Master of Science in Mathematics, Statistics Option University of Puerto Rico at Mayagüez

Passed Probability Qualifying Exam: January 2021

GPA: 4.00/4.00

Thesis in progress: Censored zero-inflated Poisson regression model: predicting success in undergraduate

math courses Expected graduation: May 2023 Advisor: Raúl E. Macchiavelli, PhD

Bachelor of Mathematics

University of Antioquia

GPA: 3.69 Thesis: Optimal stopping time on productive process with

finite horizon Advisor: Ricardo Restrepo-López, PhD

Teaching Assistant

Mayagüez, Puerto Rico

EDUCATION WORK EXPERIENCE

Jan 2020 - Present

University of Puerto Rico at Mayagüez

· Teaching of Pre-Calculus I and Statistics. · Teaching assistant for Calculus II, Pre-Calculus I and

Department of Mathematical Sciences

- 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

Puerto Rico Mathematics Olympiads (OMPR)

Teaching Assistant

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

international math competitions.

· Grading math Olympiad exams.

- · Judge in school math competitions. Contributing editor in the annual edition of OMPR
- books.

Jul 2019 - Dec 2019

Medellín, Colombia

Jan 2016 - Dec 2018

Rionegro, Colombia

Colegio El Divino Niño · Teaching of Algebra & Trigonometry.

High School Teacher

Teaching Assistant

Antioquia Government Scholarships

· Tutoring in the Math Support Center of the University of

Antioquia.

Graduate Research

RESEARCH EXPERIENCE

· Generalized linear models, censored data, zero-inflated data, computation in

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

PUBLICATIONS

Bulletin des VSMP, 147, 15-19.

of the University of Antioquia.

Medellín, Colombia, May 2019.

Antwerp, Belgium, 2021. (Online)

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

of mathematics competitions on teachers and their classrooms in Puerto Rico,

https://doi.org/10.1007/s11858-022-01414-x Akveld, M., & Henao, F. (2021). The impact of mathematics competitions in

Switzerland and the UK. ZDM - Springer, 54, 1009-1025.

Cáceres, L., & Henao, F. (2021). Mathematics competitions, a perspective from Puerto Rican teaching. Espacio Matemático, 2, 68-82. DOI: 10.48082/espmatv02n01a21p06.

Cáceres, L., Colón, O., Gutiérrez, D., Henao F., Jiménez, J. A., López, S. M.,

schools, a comparative study between Puerto Rico, Switzerland and the UK.

Ortega, J. S., Portnoy, A., & Vélez, A. (2021). Problems and Solutions: Mathematics Olympiads in Puerto Rico 2020-2021. University of Puerto Rico Publications. Henao, F. (2019). Optimal stopping time on productive process with finite

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

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, August 2022.

"The perceived impact of mathematics competitions on teachers and their classrooms in Puerto Rico, Switzerland and the UK." XXXVII Interuniversity Mathematical Sciences Research Seminar, Mayagüez, Puerto Rico, February 2022.

"Optimal stopping time on productive process with finite horizon."

CONFERENCES ATTENDED

The 2022 SACNAS National Diversity in STEM Conference, San Juan, Puerto

XXXVII Interuniversity Mathematical Sciences Research Seminar, Mayagüez,

Undergraduate Thesis Defense, VII Symposium in Exact and Natural Sciences,

Puerto Rico, 2022.

Rico, 2022.

XXX Annual Kangaroo Meeting of the Association Kangourou sans Frontières, Cervia, Italy, 2022. (Online)

XXIX Annual Kangaroo Meeting of the Association Kangourou sans Frontières,

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

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

XXXV Interuniversity Mathematical Sciences Research Seminar, Cayey, Puerto

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 Professor and Dean of the College of Agricultural Sciences

Relationship: Graduate Advisor

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

Director of the Puerto Rico Mathematics Olympiads University of Puerto Rico at Mayagüez

Omar Colón-Reyes, PhD

University of Puerto Rico at Mayagüez Email: omar.colon4@upr.edu

Luis F. Cáceres-Duque, PhD Professor of the Department of Mathematical Sciences

Email: luis.caceres1@upr.edu Relationship: Research Group and OMPR Director

Professor and Chair of the Department of Mathematical Sciences

Relationship: Graduate Assistantship Supervisor