



Juan Camilo Barbosa-Caro

Biologist
PhD candidate
Institute for Molecular Physiology
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Results-driven leader with strong background in plant physiology, computational tools, and science communication.

Passionate about food production sustainability through effective knowledge transfer and interdisciplinary collaboration.

Professional experience

Core competencies

- Project management
- Team work capacity
- Creative problem solving
- Data-driven and result oriented thinking
- Scientific communication skills
- Multidisciplinary background and perspective

Research Scientist - Physiology of plant stress-response signaling

Heinrich Heine Universität, Düsseldorf - Germany
Since September 2021

Group coordinator - virtual learning material generation for Taiz & Zeiger 7th ed. Plant Physiology text book.

Remote, Maryland - USA
January 2022 - June 2022

Teaching assistant - Lab coordination and guidance of university students.

University of Maryland, College Park - USA
August 2018 - August 2021

Science trainer - Colombian science olympic team

Antonio Nariño University, Bogotá - Colombia
January 2016 - September 2018

Language proficiency

- Spanish - Native
English - Advanced
German - Conversational
Russian - Intermediate

Education

since September 2021

PhD. in Plant Biology
Heinrich Heine University. Düsseldorf, Germany

August 2018 - August 2021

MSc. in Plant Biology
University of Maryland. College Park, USA

September 2017

Bsc. in biology
Colombia National University. Bogotá, Colombia

Publications

Research



3D designs



0000-0002-4101-6450

Laboratory skills

Plant biotechnology

- sterile technic expert
- tissue protoplasting and in vitro culture maintenance
- electrophysiological transporters characterization
- plant phenotyping system generation

Molecular biology

- DNA extraction and purification
- genotyping using known molecular markers.
- molecular cloning
- transgene integration into stable plant lines

Computational skills



- FAIR-focused data management
- data analysis pipeline construction and automation
- signal processing
- imaging data analysis

Hobbies

- maker: problem solving using Arduino and 3D printing
- open source code collaboration
- outdoor biking
- mycology: foraging and culture

References

Dr. Michael Wudick

Heinrich Heine Universität - Düsseldorf
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Prof. Jose Feijo

University of Maryland - College Park
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