

Ariel Mundo Ortiz

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Professional Experience

Centre de recherche du CHUM (CRCHUM) Montréal, QC

Postdoctoral Fellow

January 2024- Present

- Working in projects of personalized medicine using big health data (electronic health records).
- In charge of developing data pipelines, analyses using machine learning (regression models), data visualization (all using R, including parallel computing and Git), manuscript writing and revision.
- In charge of developing code to analyze data using a computing cluster.

Université de Montréal Montréal, QC

Postdoctoral Fellow, Département de médecine sociale et préventive et au centre de recherche en santé publique July 2022-December 2023

- Worked in projects of infectious disease modelling (mpox, COVID-19).
- Edited, revised and wrote academic manuscripts.
- Developed code to clean and analyze data (in R and Git).
- First year of postdoctoral fellowship was supported by a CRM-MIPH fellowship.

University of Arkansas Fayetteville, AR

Graduate Research Assistant

Aug 2017- May 2022

- Designed and executed experiments in small animal models of cancer.
- Developed methodologies to obtain relevant data.
- Wrote grants to support research expenses.
- Developed code pipelines to analyze longitudinal data.
- Prepared manuscripts and prepared presentations to present research progress.

Universidad Rafael Landivar Guatemala

Teaching Assistant Professor

2016-2017

- Developed lectures for college Chemistry courses.
- In charge of laboratory supervision and student mentoring.

Adjunct Professor

2013-2017

- Taught Chemistry in two departments (Engineering, Health Sciences).
- Developed lectures, supervised laboratory experiments.
- In charge of student mentoring and collaborating with faculty members.

Lacteos Balcanicos Glad Guatemala

Assistant Plant Engineer

2012

- In charge of the production of different dairy products of the company.
- Supervised personnel and controlled material inventory material inventory.
- Was in charge of production scheduling, and quality control reporting.

Education

University of Arkansas, PhD. Biomedical Engineering

May 2022

Universidad Rafael Landivar, B.S. Chemical Engineering (cum laude)

2009

Technical Skills

- Technical/Scientific writing
- R
- Git

- Statistical modelling (parametric & semi-parametric models)
- Public speaking

Awards and Recognition

Fields Institute: Mathematics for Public Health Festival (MfPHFest) October 2022

Received funding to attend the MfPHFest conference and present postdoctoral work done in the field of Statistics. (CAD 1,500)

Centre de recherches mathématiques (CRM) MfPH-CRM Postdoctoral Fellowship July 2022

Received postdoctoral fellowship for one year to analyze public health and behavioral data (CAD 50,000)

BME Rising Scholar June 2022

Selected by the committee of the BME Scholars Program at Washington University in St. Louis to receive mentorship about pathways and professional success in academic careers. Award included paid travel, conference attendance and honorarium.

Professional Awareness, Advancement, and Development (PADD) Scholar 2020-2021

Received funding and participated in the PAAD program to supplement my graduate education in persuasive speaking, commercialization, and data science (USD 1,500).

OMNI Endowed International Scholarship 2020

Granted as a scholar fulfilling the mission of the OMNI Center in Fayetteville (USD 500)

Fulbright Faculty Development Scholarship 2017-2019

Scholarship covered all costs of my PhD for the first two years. Only two scholarships awarded for that period in the whole country. (USD 78,000)

Grants

Canada Institutes of Health Research (CIHR) 2023

Co-investigator in the grant “epidemiological modelling of behavioural impact on mpox mitigation strategies” lead by Prof. Nasri from Université de Montréal. Involved in the writing of the grant proposal, performing literature review, communicating with team members, and revising the final grant draft. Funding secured: CAD 412,000. The proposal was in the 50% rank within the competition. Record of the grant can be found in the [CIHR funding decision database](#).

Arkansas Biosciences Institute 2021 seed grant competition 2021

Main author on a proposal co-submitted with Dr. Timothy Muldoon to examine gene expression and optically derived markers in a mouse model of colorectal cancer. Funding secured: USD 30,000. The proposal scored in the top 2 of all the individual research projects for the cycle.

Languages

- Spanish: Native speaker
- English: Full professional competency
- French: Full professional competency