

# Mariadaria (Marida) K. Ianni-Ravn

*PhD Candidate,*  
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## Education

### **PhD Candidate, Human Genetics**

*Sep. 2022 - current*

The University of Chicago  
Advisor: John Novembre  
Computational Genomics Track

### **MSc Bioinformatics**

*Sep. 2020 - June 2022*

The University of Copenhagen  
Thesis advisor: Fernando Racimo  
Computational Biology Specialization

### **BA Natural Sciences (Biological) - First Class**

*Sep 2017 - June 2020*

The University of Cambridge  
Scholar of King's College (2018, 2020)  
Specialisation in Zoology Department

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## Publications

**Ianni-Ravn, Mariadaria K.**, Martin Petr, and Fernando Racimo. "Exploring the effects of ecological parameters on the spatial structure of genetic tree sequences." *bioRxiv* (2023): 2023-03.

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## Poster Presentations

### **The Allied Conference of Human Genetics**

*March 2024*

A genealogical view of linkage disequilibrium at a single locus

### **Probabilistic modelling in genomics**

*March 2023*

Exploring the effects of ecological parameters on the spatial structure of genealogies

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## Teaching

### **Teaching Assistant**

*March. 2024 - current*

Quantitative Genetics for the 21st century  
University of Chicago  
Instructors: Jeremy Berg, Andy Dahl

**Teaching Assistant**

Introduction to Data Science  
The University of Copenhagen  
Instructor: Francois Bernard Lauze

*January. 2022 - April 2022*

**Teaching Assistant**

Digital Technologies and Data-Driven Business  
Copenhagen Business School  
Instructor: Timothy Charlton-Czaplicki

*Sep 2021 - December 2021*

**Tutor**

A-Level Mathematics, Further Mathematics, Biology, Chemistry,  
Extended Project  
Doxa Tutoring Agency

*Sep 2020 - Sep 2021*

**Tutor**

A-Level, GCSE Sciences and Mathematics  
Tutorfair (Volunteering)

*June 2020 - Sep 2021*

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## Computational Skills

*Languages:* R, Python, bash

*Other:* bcftools, plink, DNAnexus RAP, latex, git, snakemake, slurm

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## Internal Talks and Lectures - selected

Population Genetics ‘Supergroup’ meeting

Title: “Challenges and Opportunities for Studying Complex Traits  
in Geographic Space”

*November 2023*

Guest Lecture, PhD program in Biophysical Sciences,

Title: “Data Visualisation in Population Genetics”

*November 2023*

Workshop, Program for Computational Biology Weekly Seminar

Title: “Introduction to Snakemake”

*February 2024*

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## Classes - selected

Applied Linear Regression, Machine Learning, Computational Biology (Models and Inference,  
algorithms and applications), Machine Learning

Quantitative Genetics for the 21st Century, Human Genetics, Population Genetics, Biological  
Sequence Analysis

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## Volunteering and Outreach

*University of Chicago Computational Biology Outreach (UC  
COMBO)*

Director of Marketing

Workshop Leading: ‘mini-GWAS’ (Gunsaulus Scholastic Academy)

*June 2023 - current*

*iMentor Mentorship Program*

Mentor

*September 2023 - current*

Updated March 2024

*Admissions Committee Member*

Human Genetics and Genetics, Genomics and Systems Biology  
PhD Programs  
The University of Chicago

*December 2023*

*Outreach Lecture: What is Computational Biology?*

Peter Symonds College, Winchester

*December 2022*

*Scientific Illustration: BlueSci Science Magazine*

The University of Cambridge

*September 2019 - current*