

Mariadaria Ianni-Ravn | Curriculum Vitae

Department of Human Genetics – University of Chicago – Chicago, IL

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Education

University of Chicago

Ph.D. Human Genetics

Advisor: John Novembre

Chicago, IL

2022–present

University of Copenhagen

M.Sc. Bioinformatics

Computational Biology

Copenhagen, Denmark

2020–2022

University of Cambridge

B.A. Natural Sciences (Biological)

First Class; Scholar of King's College (2018, 2020)

Cambridge, UK

2017–2020

Publications

Peer-reviewed.....

Ianni-Ravn, M. K., Petr, M., Racimo, F. (2024). Exploring the effects of ecological parameters on the spatial structure of genetic tree sequences. *Peer Community Journal*, 4.

Steiner, M. C., Rice, D. P., Biddanda, A., **Ianni-Ravn, M. K.**, Porras, C., Novembre, J. Study design and the sampling of deleterious rare variants in biobank-scale datasets. *PNAS*.

Steiner, M., Blanc, J., Gibbons, E., Zhong, E., **Ianni-Ravn, M. K.**, Morgan, R., Parkinson, S., Blake, L. Ten simple rules for success as a trainee-led computational biology outreach organization. *PLOS Computational Biology*.

In preparation.....

Kerdoncuff, E., **Ianni-Ravn, M. K.**, Roze, D., Novembre, J., Lambert, A., Achaz, G. How demography shapes linkage disequilibrium with or without recombination.

Presentations

Oral.....

2025: Gordon Research Conference on Quantitative Genetics, Portland, ME (**selected talk; travel award**)

2025: Gordon Research Conference on Quantitative Genetics, Lucca, Italy (**selected talk; travel award**)

2025: Society for Modeling and Theory in Population Biology, Chicago IL (**best graduate talk**)

2024: Midwest Population Genetics Meeting, Bloomington, IN (**best graduate talk**)

Posters.....

2025: American Society of Human Genetics (ASHG), Boston, MS

2024: American Society of Human Genetics (ASHG), Denver, CO

2024: Allied Conference of Human Genetics, Washington, DC

2023: Midwest Population Genetics, University of Michigan, Ann Arbor

2023: Probabilistic Modelling in Genomics, Cold Spring Harbor Laboratory, NY

Workshops.....

2024: Computational Genomics Summer Institute, Los Angeles, CA

Teaching

2024: Teaching Assistant, Human Genetics, University of Chicago

2024: Teaching Assistant, Quantitative Genetics, University of Chicago

2023: Teaching Assistant, Introduction to Data Science, University of Copenhagen

2021: Teaching Assistant, Digital Technologies and Data-Driven Business, Copenhagen Business School

2022: Tutor, A-Level Mathematics and Science, Doxa Tutoring Agency

Outreach, Service & Mentorship

2025: GGSB "AI in Genomics" Symposium — Organizing committee

2023–: Instructor & Marketing Director, UChicago Computational Biology Outreach (COMBO)— teaching workshops (elementary / middle / high school level), branding, newsletters

2023: Admissions Committee, Human Genetics (UChicago)

2023–: Mentor, iMentor Chicago (one-on-one college application mentoring)

2024: Workshop: Introduction to Pipeline Design in Snakemake, University of Chicago

2023: Guest Lecture: Data Visualization in Population Genetics, PhD Program in Biophysical Sciences, University of Chicago

Funding & Grants

2025–2027: NIH/NIGMS R21 HG014303 (PI: Novembre) — *Deciphering the relation between genetic relatedness and phenotypic covariance*. Role: Contributing writer; project funded.

Technical Skills

R, Python, bash, Snakemake, Slurm, git, LaTeX, bcftools, plink, cloud computing (DNAnexus RAP)