

FERNANDA GIERSDORF

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<https://fernandagiersdorf.github.io/>

I am interested in acquiring and analyzing datasets to answer evolutionary questions. For the past five years, I worked with single-cell transcriptomics of yeast cells to study the evolution of gene expression noise. I worked with big datasets, using mainly R, Bash and Python for data parsing, analyzing and visualization. In the past, I have worked with population genomics and taxonomy of tropical bees and with seed dormancy, performing fieldwork in Brazilian forests and cerrado fields.

Education

Max Planck Institute for Evolutionary Biology	Germany
Ph.D. in Evolutionary Biology	2021–2026(expected)
Advisors: Prof. Dr. Julien Dutheil & Dr. David Rogers	
Christian-Albrechts-Universität zu Kiel (CAU)	Germany
Msc. in Molecular Biology and Evolution	2019–2021
Thesis title: Inferring transcriptional noise in <i>Saccharomyces paradoxus</i> using high-throughput single-cell transcriptomics	
GPA: 1.2	
Universidade Federal de Minas Gerais	Brazil
B.S. in Biological Sciences	2014–2018

Publications

Moutinho A.F., **Trancoso F.F.**, Dutheil, J.Y.(2019). The Impact of Protein Architecture on Adaptive Evolution. Molecular Biology and Evolution DOI: 10.1093/molbev/msz134

Selected Conferences

SMBE Satellite Meeting	Tübingen, Germany
Poster presentation	3-5.6.2025
3rd Joint Congress on Evolutionary Biology	Montreal, Canada
Talk in the Symposium on the Evolution of Biological Noise	26-30.7.2024
Biology of Genomes - CSHL	Cold Spring Harbor, USA
Poster presentation	7-11.5.2024

Teaching

Evolutionary Genetics - Biol253 CAU Kiel	21.5.2025
Lecture on the evolution of gene expression regulation	
Co-Supervision of Master's student's internship, Alicem Susam	2025
Population Genomics - Biol244 CAU Kiel	13-24.3.2023, 11-22.3.2024
Tutoring students during the practical sessions of the course.	
Co-Supervision of Bachelor's student's internship, Zeynep Akçor	2022
Student helper (HiWi) - Evolutionary Game Theory - Biol620 CAU Kiel	18-29.1.2021

Skills

Bioinformatics: Git, R, Python, Bash, Vim, HPC. Parsing big data, data analysis and visualization.
Laboratory skills: Single-cell RNA sequencing with 10x Genomics, molecular biology
Languages: English, Portuguese, German(intermediate)
Extracurricular: PhD representative; organized conferences