

# FERNANDA GIERSDORF

---

(+49) 1627030920  
trancoso@evolbio.mpg.de  
<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

---

|   |                     |
|---|---------------------|
| <b>Max Planck Institute for Evolutionary Biology</b>  | Germany             |
| Ph.D. in Evolutionary Biology   | 2021–2026(expected) |
| Advisors: Prof. Dr. Julien Dutheil & Dr. David Rogers   |                     |
| <b>Christian-Albrechts-Universität zu Kiel (CAU)</b>  | 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  |                     |
| <b>Universidade Federal de Minas Gerais</b>   | 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

---

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

## Teaching

---

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