

Maeva Fincker

Data science / Data visualization - Full time

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Education

Stanford University, Department of Civil & Environmental Engineering, Stanford, CA

2013 — Present *PhD in Environmental Microbiology*, with Dr. Alfred Spormann

2011 — 2012 *M.S. in Environmental Engineering and Sciences*

Ecole Centrale Paris, Châtenay-Malabry, France

2009 — 2012 *B.S and M.S in Engineering*

Portfolio & Projects

2017 **California Poverty Project**, Stanford Center on Poverty & Inequality, Stanford Data Lab

collaboration with Dr. David Grusky and William Berhman

- Designed and implemented a multi-scale interactive map displaying demographic and socio-economic variables in California for policy makers to understand the impact of novel policies.

2017 **Malaria Eradication in Zambia**, PATH and Stanford Data Lab

- Prototyped interactive data visualization tools and maps using human-centered design to help health community workers in Zambia focus their efforts where they are most needed.

2017 **Postal Routes in Europe during the Early Modern Period**,

collaboration with Rachel Midura, History Department, Stanford University

- Cleaned and formatted historical data to render it usable for analysis.
- Designed interactive visualizations of historical texts.

2016 **Microbial Growth Rate Prediction from Genomic Features**, Stanford

- Preprocessed genomic data and trained classification models on the clean data (SVM, RF) to predict microbial growth rate *in silico*.

Experience

2012 — Present **Spormann Laboratory**, Stanford

Graduate research assistant, with Dr. Alfred Spormann

- Conducted research on the metabolism of slow growing microorganisms (experiments, modeling, bioinformatics).
- Mentored and supervised undergraduate and master students.
- Lectured at Stanford University and presented my research at international conferences.
- Published first-author research papers with Dr. Alfred Spormann

Skills

- Data visualization (Vega.js, D3.js, Leaflet.js, MapBox, Photoshop, Illustrator)
- Computational biology

- R (tidyverse), Python, MATLAB, LaTeX
- Fluent in French and English, basics of Spanish and Japanese

Relevant coursework

- Machine learning
- Computational genomics

- Statistical inference
- Biostatistics