

Jan-Philipp Fränken

23/1 Causewayside – EH9 1QF Edinburgh – United Kingdom

☎ +49 (157) 382 19681 • ✉ janphilipp.franken@gmail.com • 🌐 janphilippfranken.github.io

Education

PhD, Psychology

Bramley Computational Cognitive Science Lab

- Awarded competitive scholarship by ESRC and German Academic Scholarship Foundation (€68,800).

University of Edinburgh

2019-2022 (expected)

MSc, Cognitive and Decision Sciences

GPA: 77.8/100, Distinction, Dean's List

- Courses in programming (Python), statistics (R), and neuroimaging (MATLAB).

University College London

2018-2019

BSc, Psychology

GPA: 8.98/10, Distinction, Honours

- Semester abroad at Universitas Surabaya, Indonesia.

Maastricht University

2015-2018

Professional Experience

PhD Researcher

- Used **Python** to build models of probabilistic program induction resulting in first-author submission (preprint [here](#)). *2019–present*
- Built interactive multiplayer experiments using **React** and recruited participants using **MTurk** (demos [here](#)).
- Published first-author conference paper (paper [here](#)) and first-author poster at Cognitive Science Society (poster [here](#)).
- Implemented dynamic Bayesian models in Python to develop account of structure sensitive social inference (paper in prep.).
- Presented research findings in talks at NYU, UC Berkeley, UCL, and MPI for Biological Cybernetics.

Tutor, Computer Science & Statistics

School of Informatics & Dept. of Psychology, University of Edinburgh

- Led weekly tutorials helping computer science students with the implementation of computational models in **R**. *2019–present*
- Tutored three undergraduate and two postgraduate courses in statistics using R and marked assignments.
- Awarded £100 for excellent tutoring performance in 2020/2021.

Visiting Researcher

Centre for Mathematical Neuroscience, City, University of London

- Implemented dynamic causal model of resting-state fMRI using **MATLAB** and Python (paper in prep.). *2019–2020*

MSc Researcher

Dept. of Experimental Psychology, University College London

- Built an **agent-based model** of echo chamber formation in **NetLogo** resulting in first-author publication (paper [here](#)). *2018–2019*
- Implemented behavioural experiment on Mturk using **JavaScript** and tested predictions of Bayesian agents using Python.

Consulting Intern

CPC AG - Consultancy for Change Management

- Conceptualised digital leadership training programme for one of the world's largest telecommunications companies. *Summer 2018*

Research Assistant

Faculty of Psychology and Neuroscience, Maastricht University

- Collected empirical data using a **virtual reality-based** deception paradigm and analysed results. *2016–2018*
- Presented findings to the university's forensic psychology section and co-authored publication (paper [here](#)).

Selected Leadership and Organisation

Lead Course Representative

University College London

- Collected feedback from ~70 postgraduate students and presented results to faculty in quarterly meetings. *2018–2019*
- Collaborated with course convenor and developed new assessment format for the module Knowledge, Learning and Inference.

Political Cognition Seminar Series Host

University College London

- Organised a biweekly seminar series with speakers from Yale, Cambridge, Oxford, LSE, and other top universities. *2018–2019*

Child Interview Trainer

Universitas Indonesia

- Assisted forensic experts with the training and examination of police officers on child interviewing techniques. *October 2017*

Skills

- **Programming:** *Proficient:* Python, R, MATLAB, NetLogo, JavaScript, HTML, CSS. *Learning:* C++.
- **Technical skills:** Machine learning and statistics (program induction, Bayesian models, reinforcement learning, causal inference, time series analysis, regression, classification, clustering, hypothesis testing, model fitting), experimental design, data analysis, data visualisation, agent-based modelling, React applications, WebSockets, AWS, Firebase.
- **Languages:** Native/bilingual proficiency: German, English; Beginner: Bahasa Indonesia.

Interests and Hobbies

- Kiteboarding, meditation, mixed martial arts, playing guitar.