Jan-Philipp Fränken

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Education

PhD, Psychology ***University of Edinburgh***
Bramley Computational Cognitive Science Lab *2019-2022 (expected)*
○ Awarded competitive scholarship by ESRC and German Academic Scholarship Foundation (€68,800).

MSc, Cognitive and Decision Sciences ***University College London***
GPA: 77.8/100, Distinction, Dean's List *2018-2019*
○ Courses in programming (Python), statistics (R), and neuroimaging (MATLAB).

BSc, Psychology ***Maastricht University***
GPA: 8.98/10, Distinction, Honours *2015-2018*
○ Semester abroad at Universitas Surabaya, Indonesia.

Professional Experience

PhD Researcher **Dept. of Psychology, University of Edinburgh**
○ 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 mindfulness 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.