Jan-Philipp Fränken

janphilipp.franken@gmail.com
janphilippfranken.github.io

Proficient: Python, R, JavaScript, HTML, NetLogo
Learning: C++

Education

University of Edinburgh, PhD in Computational Cognitive Science. September 2019-Present
Bramley Computational Cognitive Science Lab

University College London, MSc in Cognitive and Decision Sciences. September 2018-August 2019
GPA: 77.8/100, Distinction, Dean's List
o Courses in programming (Python), statistics (R) and fMRI analysis (MATLAB).
o Student Academic Representative.

Maastricht University, BSc in Psychology. September 2015-July 2018
GPA: 8.98/10, Distinction, Honours
o Exchange at Universitas Surabaya, Indonesia.

Experience

PhD Researcher, University of Edinburgh. September 2019-Present
Supervisor: *Neil Bramley*
o Applied **machine learning** tools to model human concept learning resulting in first-author publication (*preprint*).
o Used **Python** and **C++** to implement computational models and fit them to experimental data.
o Built analysis pipelines in **R** and Python, deploying regression models and hierarchical Bayesian models.
o Developed interactive multiplayer experiments using **React** and recruited participants using **MTurk** (*demos*).

Statistics Tutor, University of Edinburgh. September 2019-Present
o Tutored five **statistics** and two **programming** modules across Informatics and Psychology (details *here*).
o Awarded £100 for excellent tutoring performance in 2020/2021.

Researcher, City, University of London. March 2019-December 2020
Supervisor: *Dimitris Pinotsis*
o Analysed large fMRI data set using **MATLAB** resulting in co-author publication (paper under submission).

MSc Researcher, University College London. September 2018-August 2019
Supervisor: *David Lagnado*
o Built an **agent-based model** of echo chamber formation in **NetLogo** resulting in first-author *publication*.
o Developed experimental paradigm and collected data by running interactive experiment on MTurk using **JavaScript**.

Consulting Intern, CPC AG - Consultancy for Change Management. July 2018-September 2018
o Conducted market research and organised teambuilding workshop for major telecommunications provider.
o Completed course on agile project management from Scrum.org and received **PSM I** certificate.

Research Assistant, Maastricht University. March 2016-June 2018
Supervisor: *Henry Otgaar*
o Collected and analysed empirical data using a virtual reality-based deception paradigm resulting in co-author *publication*.

Selected Leadership and Awards

Co-Founder, Zwango. January 2022-Present
o Collaborated with team of three to develop a novel chopping board. Kickstarter campaign launch in 2022 (details *here*).

PhD Scholarship, German Academic Scholarship Foundation. December 2019-Present
o Awarded competitive scholarship by Germany's most prestigious scholarship foundation (€68,800).

ESRC Studentship, Scottish Graduate School of Social Science. September 2019-December 2019
o Awarded competitive studentship covering additional training courses (£4327).

Seminar Series Organiser, University College London. February 2019-August 2019
o Organised a biweekly seminar series with speakers from Yale, Cambridge, Oxford, LSE, and other top universities.

Skills

o **Machine learning and statistics**: Bayesian models, Monte Carlo methods, causal inference, reinforcement learning, program induction, information theory, regression, clustering, classification, hypothesis testing, model fitting, optimisation.
o **Research skills**: Experimental design, model development, data collection, data analysis, data visualisation, report writing.
o **Languages**: Native/bilingual proficiency: German, English. Beginner: Bahasa Indonesia.