



JustinChumbley

Statistician

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About me

I am an applied statistician with a broad background in behavioral and biological sciences (economics, psychology, genomics, neuroscience).

About me

- I use experimental design and statistical or causal analysis to study goals, motivation, and behavior change. I have extensive experience with statistical methods including multilevel modeling, and fMRI preprocessing and analyses.
- I develop statistical tools.
- I draw on social choice theory, game theory, reinforcement/unsupervised learning theory and mathematical biology.
- I currently consult on the design and analysis of functional genomics, functional cognitive imaging and behavioral studies, associating with existing longitudinal panels.

Core skills

Self-direction, an ability to translate complicated ideas and communicate them clearly, and the ability to identify creative approaches to novel interdisciplinary problems. Supervising small research teams.

Skills

- Inference: Frequentist & Bayesian statistics, non-parametric; experimental design; causal inference; machine learning; space-time series: panel, longitudinal; statistical signal processing; control theory.
- Computing: R, Matlab, some Python, SQL, Shell scripting, data repositories. I contribute to the neuroimaging software package SPM.
- Independence: Grant conception and writing.
- Collaboration: I lead some multidisciplinary projects and consult and collaborate on others.
- Communication: Collaborative writing. Communicating statistical analyses to non-statisticians.
- Teaching: Undergraduate & postgraduate student supervision and post-doctoral statistical consultancy. I lecture on statistical methods for neuroimaging (University College London, ETH Zurich, Edinburgh, Milan).

Education

1996–1999	BA Psychology	Dept. Cognitive Science, University of Sussex. Brighton, UK.
2000–2001	MSc Neuroscience	Dept. Biophysics, Imperial College School of Medicine. London, U.K.
2004–2005	MSc Statistics	Dept. Statistics, University College London. London, U.K.
2005–2006	MRes Modeling Biocomplexity	Dept Mathematics, University College London. London, U.K.
2004–2005	PhD Biostatistics	Welcome Trust Centre for Neuroimaging, University College London. London, U.K.

Employment

2016–	Statistician	Jacobs Center for Productive Youth Development, UZH Zurich. CH
2014–2016	Senior Research Associate	Dept. Biomedical Engineering, ETH Zurich CH
2009–2014	Research Associate	Dept. Economics, University of Zurich CH

Publications

Publication list at google scholar.

References

Prof. Dr. med. Klaas Enno Stephan, Ph.D., Scientific director, Translational Neuro-modeling Unit (TNU), Institute for Biomedical Engineering University of Zurich and ETH Zurich, Zurich, Switzerland. E-Mail: stephan@biomed.ee.ethz.ch

Prof. Ernst Fehr, Vice-Chairman of the Department of Economics, Director of the UBS International Center of Economics in Society, University of Zurich. Zurich, Switzerland Email: ernst.fehr@econ.uzh.ch

Prof. Karl Friston, Scientific director, Wellcome Trust Centre for Neuroimaging, University College London, London, U.K.. Email: k.friston@ucl.ac.uk