



JustinChumbley

Ph.D

Statistician

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About me

I am an applied statistician with a broad background in behavioral and biological sciences. I develop experiments and the statistical tools to analyze them. I help my collaborators clarify and solve interdisciplinary problems involving probabilistic and causal inference.

Expertise

- I consult on research strategy, design and statistical analysis of human functional genomics, functional neuroimaging and behavioral studies.
- I supervise a research team studying goals, motivation & behavior change.
- I develop new statistical tools & communicate them to non-statisticians.

Skills

- Inference: Frequentist & Bayesian statistics; Causality; experimental design; machine learning; spacial and time-series data: some statistical signal processing; control theory.
- Computing: R; Matlab; some Python; SQL; Shell scripting; data repositories. I contribute to the neuroimaging software package SPM.
- Independence and collaboration: I lead some multidisciplinary projects and consult and collaborate on others. Collaborative and independent grant conception and writing.
- Teaching: Undergraduate & postgraduate student supervision and post-doctoral statistical consultancy. I lecture on statistical methods for neuroimaging (University College London, ETH Zurich, Edinburgh, Milan).

Employment

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

Education

2006–2009	PhD Biostatistics	Wellcome Trust Centre for Neuroimaging, University College London. London, U.K.
2005–2006	MRes Modeling Biocomplexity	Dept Mathematics, University College London. London, U.K.
2004–2005	MSc Statistics	Dept. Statistics, University College London. London, U.K.
2000–2001	MSc Neuroscience	Dept. Biophysics, Imperial College School of Medicine. London, U.K.
1996–1999	BA Psychology	Dept. Cognitive Science, University of Sussex. Brighton, UK.

Publications

Publication list at [google scholar](#), or see some working projects on the [website](#).

References

Prof. Dr. med. Klaas Enno Stephan, Ph.D., Scientific director, Translational Neuromodeling Unit (TNU), Institute for Biomedical Engineering University of Zurich and ETH Zurich, Zurich, Switzerland.

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

Prof. Karl Friston, Scientific director, Wellcome Trust Centre for Neuroimaging, University College London, London, U.K..