



JustinChumbley Ph.D

Statistician

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🏠 [chumbleycode.github.io](https://github.com/chumbleycode)

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About me

I am a statistician and scientist with broad interests in human behavior and biology. I develop experiments and the statistical tools to analyze them. I help my collaborators clarify and solve interdisciplinary problems involving probabilistic and causal inference.

Statistical research expertise

- I consult on research strategy, design and statistical analysis of human functional genomics, functional neuroimaging and behavioral studies.
- I develop new statistical tools & communicate them to non-statisticians.
- I supervise a research team studying goals, motivation & behavior change.
- Other empirical work examines environmental effects on immune health.
- For more detail and other projects, please visit the [website](#).

Skills

- Inference: Bayesian & frequentist statistics; causality (following Rubin, Pearl and Robins); experimental design; probabilistic machine learning; spacial and time-series data: some statistical signal processing and control theory.
- Data science: Languages (R; matlab; python; bash); databases (dbplyr, SQL); devops platforms (Docker).
- Collaboration: I lead some multidisciplinary projects, and consult on or coordinate others.
- Teaching: Supervise research technicians, undergraduate & postgraduate students; academic statistical consultancy; I teach statistical methods at various workshops at University College London, ETH and UZH Zurich, Edinburgh and 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 Neuroimaging 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..