

Stephen Rhodes

Clinical Research Biostatistician III

Resume

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Skills and Expertise

- **R + R-Studio:** used for over 10 years; developed the `pmcalibration` and `pminternal` packages
- **Python:** regularly used packages: `numpy`, `pandas`, `scipy`, `psychopy`, `sklearn`
- **Other Programming Languages:** SLURM (for high performance computing); SQL (for databases); Stan (for Bayesian Modeling)
- **Clinical Research:** clinical trial design; analysis of large healthcare databases; causal inference with observational data; Epic Cosmos superuser
- **Communication:** both written and spoken to both technical and non-technical audiences

Experience

2022-present	University Hospitals, Cleveland Medical Center Cleveland OH, USA	Clinical Research Biostatistician III
	<ul style="list-style-type: none">➤ Primary statistician on multi-center randomized trial funded by PCORI.➤ Extract information from large administrative/claims databases (Premier Healthcare Database, Marketscan, ICES (Ontario), Epic Cosmos).➤ Develop and evaluate clinical prediction models. Wrote two R packages that implement best-practices for internal validation (<code>pminternal</code>) and assessing calibration (<code>pmcalibration</code>) of prediction models.➤ Provide seminars on concepts and approaches in biostatistics to residents, fellows, and research staff.	
2019-2021	Baycrest Hospital, Rotman Research Institute (University of Toronto) Toronto ON, CA	Postdoctoral Fellow
	<ul style="list-style-type: none">➤ Devised and conducted experiments on age-related changes to short- and long-term memory.➤ Used neural network image classification models to measure image similarity for testing against human perception and memory.➤ Developed and led a workshop on Bayesian data analysis (materials here).	
2016-2019	University of Missouri, Dept. of Psychological Sciences Columbia MO, USA	Postdoctoral Fellow
	<ul style="list-style-type: none">➤ Part of a collaboration on aging and memory between groups in the US, UK, and Switzerland (http://womaac.psy.ed.ac.uk/).➤ Led the development of analysis pipelines (example here) and performed analyses of experimental data using generalized linear mixed effects models.➤ Developed a protocol for data documentation and archiving to ensure reproducibility.➤ Led two meta-analysis projects synthesizing findings in the literature on memory and aging.➤ Co-developed and led a two day workshop on the statistical modeling using maximum likelihood and Bayesian estimation techniques (materials here).	

Education

2012-2016	PhD Cognitive Psychology Edinburgh, UK	The University of Edinburgh
2011-2012	MSc Human Cognitive Neuropsychology Edinburgh, UK	The University of Edinburgh
2008-2011	BSc (hons) Psychology Leeds, UK	University of Leeds