





# Stephen Rhodes

Clinical Research Biostatistician III

Resume  
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 University Hospitals Cleveland Medical Center  
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## Skills and Expertise

- **R + R-Studio:** for analysis, report building, package and shiny app development; used for over 10 years
- **Other Programming Languages:** SLURM (for high performance computing); SQL (for databases); Stan (for Bayesian modeling); python (for predictive 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 expert and lay audiences

## Experience

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

## Education

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