

# Stephen Rhodes

Clinical Research Biostatistician III

Resume

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📍 St Louis, MO  
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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); JAGS, Stan (for Bayesian modeling); python (misc)
- **Clinical Research:** experimental design, 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; regularly give seminars/workshops on statistical methods

## Experience

|              |   |                                       |
|--------------|---|---------------------------------------|
| 2022-present | <b>University Hospitals, Cleveland Medical Center</b><br>Cleveland OH, USA (remote from 2024)   | Clinical Research Biostatistician III |
|              | <ul style="list-style-type: none"><li>➤ Primary statistician on <a href="#">multi-center randomized trial funded by PCORI</a>.</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 (<a href="#">pminternal</a>) and assessing calibration (<a href="#">pmcalibration</a>) 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><br>Toronto ON, CA   | Postdoctoral Fellow                   |
|              | <ul style="list-style-type: none"><li>➤ Designed 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 (<a href="#">materials here</a>).</li></ul>   |                                       |
| 2016-2019    | <b>University of Missouri, Dept. of Psychological Sciences</b><br>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 (<a href="#">example here</a>) 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 (<a href="#">materials here</a>).</li></ul> |                                       |

## Education

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