PAYTON J. JONES, M.A.

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My objective is to develop tools to improve health interventions and reduce the global burden of pathology using data-driven insights. I leverage expertise in regression-based machine learning and network science for healthcare applications.

SKILLS

Software
-Proficient: R (lme4, ggplot2, dplyr, caret), Git
-Familiar with: SQL, Javascript, Python, Tensorflow

Data Types
-Proficient: Clinical/preclinical, epidemiological, time-series, survey, EMA
-Familiar with: Natural language, text mining, passive monitoring

EDUCATION

Clinical Psychology, MA, PhD 2016-Present | Cambridge, MA
Harvard University | GPA: 3.85 | Focus: predictive analysis in anxiety disorders

-Designed research paradigms in pre-clinical and clinical research
-Analyzed questionnaire, behavioral, and epidemiological data using R
-Developed and published open-source software (R packages *networktools*, *networktree*, *NetworkComparisonTest*)

Psychology, BS 2011-2016 | Provo, UT
Brigham Young University | GPA 4.0, Summa Cum Laude

Relevant Graduate Coursework
-Machine Learning
-Bayesian Data Analysis
-Psychometric Methods using R (IRT, graphical models, network science)

EXPERIENCE & PROJECTS

Structural Analysis of PTSD Symptoms (Dissertation)
Analysis of epidemiological PTSD data (>500,000 data points) using psychometrics, Bayesian analyses, and LASSO.

Network Visualization
Developed software for visualization of Gaussian Graphical Models using PCA and multidimensional scaling; tutorial published in *Frontiers in Psychology*

Predicting Clinical Outcomes in Eating Disorders
Analyzed clinical data using network science methods to enhance predictions of outcomes in anorexia nervosa, published in *International Journal of Eating Disorders* and *Psychological Medicine*