**Skills**

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| STATISTICAL SOFTWARE |  |  |
| * **R:** *caret, glmnet, lm, glm, lme4, dplyr, ggplot2* * **Python:** *pandas, NumPy, matplotlib, scikit-learn* * **Stata** |  | * **SPSS** * **SAS** * **PostgreSQL** |
| DATA ANALYSIS |  |  |
| * **Regression:** *multiple, logistic, generalized* * **Multilevel Models** * **Structural Equation Modeling** * **Mediation/Indirect Effects** * **Support Vector Machines** * **Artificial Neural Networks** |  | * **Principal Component Analysis** * **K-Nearest Neighbor** * **Random Forests** * **Cross Validation** * **Regularization:** *lasso, ridge, elastic net* * **Bootstrapping** |

**Experience**

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| --- | --- |
| BRANDEIS UNIVERSITY – Waltham, MA |  |
| **Lab Team Member, Laboratory for Biological Health Psychology** | **08/2010 - 01/2012,** |
| * Analyze associations between psychological factors and cortisol reactivity to and recovery from acute stress using hierarchical growth curve modeling. * Perform CLIA and ELISA assays to determine salivary and/or plasma serum concentrations of cortisol, alpha-amylase, and interleukin-6. * Collaborate with colleagues in writing publications for academic journals. * Present research at academic conferences in poster and talk formats. * Train undergraduate lab members in research and wet lab methods. * Designed and carried out a study investigating the role of coping in human physiological responses to acute stress. | **08/2014 - Present** |
| **Graduate Teaching Fellow, Department of Psychology**  *Courses: Advanced Psychological Statistics I-II, Applied Hierarchical Linear Models, Research Methods, Social Psychology, Health Psychology, Introduction to Psychology* | **01/2015 - 06/2018** |
| * Taught statistics, research methods, and other course content during office hours. * Graded papers, projects, and tests. |  |
| ALEXDATASCI.COM – Personal Website |  |
| **Creator and Operator** | **08/2018 - Present** |
| * Write summaries of data analysis and machine learning side projects. |  |
| MAYO CLINIC – Rochester, MN |  |
| **Analyst, Biomedical Ethics Research Program** | **08/2012 - 06/2014** |
| * Analyzed quantitative and qualitative data using Stata and NVivo software. * Screened and extracted data from electronic medical records. * Collaborated with principal investigators in writing publications related to ethical considerations of genomics, internet usage, and deep brain stimulation |  |

**Education**

|  |  |
| --- | --- |
| BRANDEIS UNIVERSITY – Waltham, MA  **PhD Psychology Candidate *(ABD)***  **MA, Psychology**  CARLETON COLLEGE– Northfield, MN  **BA, Psychology *(cum laude)*** | **Expected 05/2019**  **01/2012**  **06/2008** |