Ryan A. Opel

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RELEVANT EXPERIENCE

Research Assistant/Analyst – Portland VA Computational Sleep Lab   2015–Present

- Serve as primary analyst and statistician for this growing, multidisciplinary lab.
- Analyze large repositories of clinical, biometric, signal processing, and animal behavior data, creating models and reports with R & Python to answer diverse research questions.
- My contributions are essential to the procurement of grant funding, the support of numerous publications, and the continuing development of scientific hypotheses.

Undergraduate Research Assistant – UCSB Vision & Image Understanding Lab   2013–2015

- Played a critical role in the development, debugging, and execution of MATLAB-based experiments focusing on computer vision and human-computer visual interfaces.

PROFESSIONAL DEVELOPMENT

Est. & Hypo. Testing for Applied Biostatistics – Oregon Health & Science University   2016

- Earned an A grade while using R in this Stata-based, graduate level statistics course. Tuition covered by Principal Investigator of current employment.

R Programming – Johns Hopkins University   2015

- Completed this Coursera course *with distinction*, achieving a grade of 99%.

SELECTED PROJECTS

BoardGameGeek API Class and Analysis

- Developed Python class to utilize the BGG XML API2.
- Used t-SNE algorithm to perform analysis of data repository in R, deployed via a Shiny Dashboard.

Web-scraping CPAP Adherence Database

- Designed Selenium web-crawler in Python to scrape clinical data, ultimately saving hundreds of hours of manual data entry.
- Analyzed data using cohort analysis techniques with R.

EDUCATION

University of California, Santa Barbara   2011–2015
B.S. Pharmacology, *B.S. Biopsychology*

COMPETENCIES

Languages & Scripting:	R, Python, Excel/VBA, PowerShell, MySQL
Tools:	Shiny, Pandas, NumPy, LaTeX
Statistics & Machine Learning:	Hypothesis testing, regression models, feature selection, path analysis