

# Ryan A. Opel

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Research Assistant, Computational Sleep Lab  
VA Portland Health Care System · Portland, OR  
✉ ryan.a.opel@gmail.com ☎ 949 326 3463 🌐 opelr 🌐 ryanopel.com

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## RELEVANT EXPERIENCE

Research Assistant, *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, execution, and debugging of MATLAB-based experiments focusing on computer vision and human-computer visual interfaces.

## PROFESSIONAL DEVELOPMENT

Estimation and Hypothesis Testing for Applied Biostatistics, *Oregon Health & Science University* 2016

Earned an A grade while using R in this Stata-based, graduate level 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

Designed Python class to interface with BGG XML API2. Utilized assorted statistical and machine learning methods in R to perform analysis of data repository.

Webscrapping AirView's CPAP Adherence Database

Developed Selenium webcrawler in Python to scrape clinical data otherwise only accessible through mouse-over scripts and PDFs, 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, L<sup>A</sup>T<sub>E</sub>X, MySQL

*Statistics & Machine Learning:* Hypothesis testing, regression models, feature selection, path analysis