# Philip Robinson

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### Personal Statement

I am currently a graduate student at Oregon Health and Sciences University, studying machine learning and statistical modeling. After completing my BS at Western Washington University, and my 4 years industry expirience, I have developed strong interests in cryptography, statistical computing, and programming languages. I am a very quick study, as I have adopted a new or tool-set in nearly every challenge I have taken on. My interest in teaching and writing has granted me strong communication skills, and solid background.

### Language Experience :

| | | | |
|---|---|---|---|
| ⋆ Python | Julia | Scala, Figaro | Perl |
| Ada | R | C, C++ | LaTeX |

# Education

## Oregon Health Science University                                        CSLU

Computer Science MSc
2016 – present

### Courses :

| | |
|---|---|
| Machine Learning | Statistical Methods |
| Information Retrieval | Univariate Statistical Analysis |
| Computing Ethics | Analysis of Sequences |

## Extra Carricular                                        MOOC/Bootcamp

Coursera / EdX / Stanford Online
Hack Oregon

### Courses :

| | |
|---|---|
| Functional Programming in Scala | Agile Machine Learning |
| Applied Cryptography | PPAML Summer Program |

## Western Washington University                                        Computer Science

Computer Science BS
Mathematics Minor
Sept. 2007 – June 2012

### Electives :

| | |
|---|---|
| Homomorphic Encryption Systems | Computer Graphics |
| Cryptography & Elliptic Curves | Computer Architecture |
| Artificial Intelligence | Elementary Real Analysis |
| Natural Language Processing | Linear Algebra I/II |
| Functional Programming | Abstract Algebra |

# Work Experience

**Independent                    – Contractor/Consultant**

**C&W Energy**                                                            Nov. 2015 – present
Authored educational material in light pollution on economy, biology, and technology
Light classification engine, custom photo image processing tools, and mathematical models
Developed a memoizing data pipeline for caching computationally expensive operations

**ComScore**                                                            June 2016 – Sept. 2016
Worked to support large, custom, memory mapped, data store for demographic analysis

**PDXCodeGuild**                                                            June 2016
Developed and taught introductory python course material for coding boot-camp

**Melinae**                                                            March 2016
Setup infrastructure in AWS to enable secure sustainable workflow for remote company
Provided hands on training in Python and R to industry professionals

Languages Used :  Python, R, AWS, PostgreSQL, Perl, C++

**Galois Inc.**      **– Research Engineer**      **April 2014 – Dec 2015**
    Contributed to PPAML, Overseas Voting Foundation, Safeware, Robot Fast Track
    Developed techonologies and workflows to enable evaluator work for DARPA programs
    Produced biannual quantitative and qualitative reports on for DARPA and language developers
    Participated in programs sharing new technologies to research and industry professionals
    **Languages Used : Python, Scala, Figaro, Chimpy, Docker**

**EMC$^2$ Isilon Storage**      **– Software Development Engineer**      **Dec. 2012 – July 2013**
    Brought to schedule a lagging anchor release feature in approximately 5 months
    Designed and developed password manager to support Data At Rest Encryption
    Wrote unit tests using libcheck to attain > 80% code coverage
    **Languages Used : C, C++, Python, SQLite**

**Computer Science Dept.**      **– Mentors Program Director/Mentor**      **Sept. 2009 – March 2012**
    Provided safe environment for training and instruction of students and mentors
    Ran student/faculty meetings to project future program responsibilities
    Wrote comprehensive quarterly reports, and tools for automatic report generation
    **Languages Used : Ada, C++, Scheme, R**

# Neato Projects

| | |
|---|---|
| Information Retrieval Cluster/Rank Demo Harness | *flask, gensim, Python* |
| Relivance Vector Machine Module | *Julia* |
| Sensor Systems and Light Pollution Analysis | *aws, sklearn, scipy, PonyORM, Python* |
| Gene Data Breast Cancer Drug Predictor | *R, caret* |
| Gradient Descent on Arbitrary Degree Hyperplanes | *Julia* |
| Probabilistic–Program Profiler and Evaluator Harness | *SLURM, PonyORM, Python* |
| Distributed Fully Homomorphic Encryption System | *Hadoop, Python* |
| Concurrent Elliptic Curve Cryptography Module | *Erlang, Sagemath* |
| Multilingual Analysis of Subordinating and Coordinating Conjunctions | *R, Perl* |
| AdaRailz Concurrent Model Train Control System | *Ada* |
| Fractal Art Generator & Image Manipulation Program | *C#* |