# Philip Robinson

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### Personal Statement

I am presently a graduate student at Oregon Health and Sciences University. After completing my BS at Western Washington University, and my 4 years industry expirience, I have developed strong interests in cryptography, statistical computing, and languages. I am a very quick study, as I have adopted a new programming language 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++, C# | LaTeX |

# Education

## Oregon Health Science University                    CSLU

Non-Matriculated (Masters)
2016 – present

### Courses :

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

## Western Washington University                    Computer Science

Computer Science BS
Mathematics Minor
Sept.  2007 – June 2012

### Courses :

| | |
|---|---|
| Unix Software Development | Formal Languages/Automata |
| Windows Software Development | Programming Languages |
| Analysis/Design of Algorithms | Concurrent Programming |
| Linear/Non-Linear Data Structures | Computer Organization I/II |

### Elective Courses :

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

### Honors and Related Activities

| | | |
|---|---|---|
| Comap Mathematical Modeling Competition (Meritorious Winner) – Top 10% | – Feb. | 2012 |
| Comap Mathematical Modeling Competition (Honorable Mention) – Top 30% | – Feb. | 2011 |

# Neato Projects

| | |
|---|---|
| Gradient Descent on Arbitrary Degree Polynomials | *Julia* |
| Gene Data Breast Cancer Drug Predictor | *R, caret* |
| Sensor Systems and Light Pollution Course | *aws, sklearn, scipy, PonyORM, Python* |
| Dating a Band – Lyrics Release Date Classifier | *javascript, Python* |
| Distributed Fully Homomorphic Encryption System | *Hadoop, Python* |
| Concurrent Elliptic Curve Cryptography Module | *Erlang, Sagemath* |
| Analysis of Subordinating and Coordinating Conjunctions | *R, Perl* |
| AdaRailz Concurrent Model Train Control System | *Ada* |
| TwixT AI Agent and UI | *Java* |
| Fractal Art Generator & Image Manipulation Program | *C#* |

# Work Experience

**Independent**      **– Contractor/Consultant**

  **C&W Energy**                                                 **Nov. 2015 – present**

   Authored educational material on light pollution's effect on economy, biology, and technology

   Light classification engine, custom photo image processing tools, and mathematical models

   Developed a memoizing database-interface 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**