

# Philip Robinson

Portland, OR  
UTC-8

probinso+res@protonmail.com  
(+1) 206.377.9747

<https://github.com/probinso>

## Personal Statement

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown...

## Skills/Experience

Research MVPs	Linux Systems	Education/Mentoring	Ticketing Systems
ML/Data Sciences	Remote Work	Communication	Rubber Ducking

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**GrammaTech** - R&T Machine Learning Engineer March 2020 - present  
Developed distributed feature extraction & ML training pipelines supporting DARPA programs  
Produced ML security research on compiled binaries in decompilation & vulnerability detection  
Evaluated & completed technology transfer of university research work into release products  
**Technologies** : Python, C, PyTorch, RetDec, GTIRB, Docker, celery, GitLab.ci, LevelDB, MongoDB

**HappyWhale** - Mobile / Full Stack Developer March 2019 - March 2020  
Developed Polar Collective App, a cross platform phone app supporting citizen-science work  
Core developer for web user tools in whale sight logging, identification, & tracking  
**Technologies** : Native/TypeScript, Angular, Android, iOS, PostgreSQL, Java, Spring, firebase

**NASA Jet Propulsion Lab** - Data Science Intern June 2018 - Sept 2018  
Developed employee Expertise Recommender System, automating expensive mission-critical tasks  
Completed deployable prototype from research papers & meetings with top NASA/JPL employees  
Implemented stable/principled text normalization, tokenization, & model evaluation  
**Technologies** : Python, nltk, gensim, pyLDavis, pandas, Jupyter, Author-Topic-Model, LDA

**OHSU DCAN Neuroimaging Lab** - Graduate Research Assistant Oct 2017 - June 2018  
Contributed to microbiome population analytics, studying menopause & reproductive health  
Developed processing pipeline & audit tools for reported & fMRI data, on ADHD/ASD studies  
Authored project guidelines, git trainings, & acted as lab security/privacy representative  
**Technologies** : Python, Bash, R, dplyr, phyloseq, neo4j, ponyorm, stan, GitLab, Docker

**Graduate Research CSLU/ACO** - Machine Learning (Audio Data) Sept 2017 - Dec 2019  
Implemented & transferred deep anomaly detectors from research papers to marine bio-acoustics  
Designed, developed, & managed research work in a remote environment without oversight  
Measured effects of spectral subtraction & deep noise reduction techniques on ML models  
Developed ACOio track explorer, enabling research on 10 year (12 TB) continuous audio track  
**Technologies** : ACOio, Keras, tensorflow, PyTorch, scipy.signal, Jupyter, flask, Angular

**RGB Optics (Part Time)** - Contractor/Consultant Nov 2015 - present  
Developed image processing tools for low cost spectral analysis, to study light pollution  
Authored educational material in light pollution's effect on economy, biology, & technology  
Statistics, image processing, and optimizations consultant on low cost medical blood tests  
Developed natural language processing tools to organize & explore Myeloma clinical trials  
Provide technology tutorials/consultation on code optimization, NLP, & image processing  
**Technologies** : Python, skimage, sklearn, AWS, CLiNER, Morphological Watersheds, OpenCV

**Galois Inc.** - R&D Software Engineer April 2014 - Dec 2015  
Developed processing pipelines & workflows to enable evaluator work for DARPA programs  
Helped run professional trainings to disseminate new probabilistic programming languages  
Produced biannual quantitative & qualitative reports on for DARPA & other PPAML teams  
**Technologies** : Python, SLURM, Scala, Figaro, Chimp, Docker, Jira, Basecamp

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**Oregon Health Science University**  
Computer Science & Machine Learning  
Masters of Science  
2016 - 2019

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**Western Washington University**  
Computer Science & Cryptography  
Bachelor of Science, Math Minor  
2007 - 2012