

# Philip Robinson

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<https://github.com/probinso>

I'm a Scientific Programmer / Machine Learning Researchers driven by interdisciplinary work in natural sciences, security/privacy systems, OSInt & citizen sciencery.

## Skills/Experience

Machine Learning	Prototypes	Remote Work	MLOps/DevOps
Data Sciences	Linux Systems	Education/Mentoring	Rubber Ducking

## Technologies

Python/PyTorch/sklearn	R/dplyr	GDAL/cartopy/ESA-SNAP	AWS/GCP/firebase
C/C++	skimage/scipy.signal	Gtirb/Dwarf/asts.AST	Docker

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### Blue Oasis - Digital Twin Engineer (Ocean Science) June 2025 - present

Contributed to multi-label ML marine acoustics pipeline, for tracking vessels & marine life  
Worked with acoustics researchers to develop & implement custom features for event detection  
Full stack security & performance contributions on customer facing analytics & IR dashboard

### Global Fishing Watch - Scientific Programmer (Satellites) May 2022 - March 2025

Implemented remote sensing pipeline for detecting vessels & matching to reported GPS locations  
Evaluated vessel detection over terrabytes of processed synthetic aperture radar (SAR) images  
Developed gfwsat to join & catalog millions of satellite scenes, serving global ocean surveys  
Developed custom labeler on very large images, to make ML training data for object detection  
Led technology transfer work, moving research prototypes to production & automated pipelines

### GrammaTech - Machine Learning Researcher II March 2020 - April 2022

Research on binaries in vulnerability detection & improving code legability from decompilation  
Developed feature extraction pipeline over hosted virtual machines on terrabytes of data  
Implemented, verified & incorporated ML/DL code from academic research into release products  
Participated in authoring & reviewing SBIR/STTR proposals for DOD/DARPA funding solicitations

### HappyWhale - Mobile & Full Stack Engineer March 2019 - March 2020

Developed x-platform citizen science phone app for eco-tourism & wildlife population surveys  
Developed core tools for tracking marine life sightings & individual whale identification  
Contributed to data access API & web UI, supporting researchers in population ecology studies

### NASA Jet Propulsion Lab - Data Science Intern (NLP) June 2018 - Sept 2018

Prototyped employee expert recommender system, to eliminate weeks in ticket triage/assignment  
Designed & completed prototype from research papers & advisement of top NASA/JPL employees

### OHSU Neuroimaging Lab - Graduate Research Assistant Oct 2017 - June 2018

Analyzed relationship of adjacent microbiome populations for menopause & reproductive health  
Developed processing/audit tools for survey & fMRI data to support ABCD study for ADHD/ASD  
Provided git, project management & security trainings for teams with varying readiness levels

### Masters Research (OHSU) - Machine Learning (Marine Acoustics) Sept 2017 - Dec 2019

Developed track explorer for 10YR continuous audio track, supporting Aloha Cabled Observatory  
Developed anomaly detectors for noisy marine acoustics, based on variational auto-encoders  
Measured effects of spectral subtraction & DL models to reduce noise & improve audio quality

### Galois Inc. - R&D Software Engineer April 2014 - Dec 2015

Developed processing pipelines & workflows for evaluator work on multiple DARPA SBIR programs  
Helped run professional trainings to disseminate new probabilistic programming languages  
Wrote on disenfranchisement under Free & Fair for secure internet voting feasibility study

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**Oregon Health Science University**  
Computer Science & Machine Learning  
Masters of Science

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