

Philip Robinson

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<https://github.com/probinso>

I'm a Software Engineer / Data Scientist driven towards interdisciplinary work in environmental sciences, security/privacy systems, OSInt & citizen sciencery work.

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

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

Design & implementation of sensor agnostic ML models in edge deployed low resource environments
Custom acoustics IR system to drive & enable research in feature extraction strategies
Developed light weight ML pipeline wrapper to standardize experiments with descriptive config files
Full stack development on analytics & IR dashboard for marine acoustics monitoring

Global Fishing Watch - Scientific Programmer (Research) 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
Developed an object relational mapper to encourage cloud/database best practices & documentaiton

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

Graduate Research (OHSU) - Machine Learning (Audio Data) 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

RGB Optics LLC - Volunteer Developer & Consultant Nov 2015 - present

Developed photo remote sensing tools to classify light technologies for light pollution studies
Provided technology training on code optimization, NLP on medical texts & image processing

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

Oregon Health Science University

Computer Science & Machine Learning

Masters of Science

Western Washington University

Computer Science & Cryptography

Bachelor of Science, Math Minor