

DANIEL PARK

Troy, New York

EDUCATION

Rensselaer Polytechnic Institute

PhD, Computer Science, 8/2017 - 2021, expected

Rensselaer Polytechnic Institute

MS, Computer Science, 8/2016 - 5/2019, GPA: 3.97

Occidental College

BA, Mathematics, 8/2012 - 5/2016

EMPLOYMENT

SMART Scholar

AFRL/RI, Air Force Research Laboratory

05/2019 - Current

Graduate Student Researcher

Computer Science Department, Rensselaer Polytechnic Institute

- Security of Machine Learning models
- Program obfuscation & analysis
- Malware classification & detection

8/2016 - 5/2018

Research Intern

Secure Resilient Systems and Technology, MIT Lincoln Laboratory

- Worked with the CROWS (Cyber Resiliency Office for Weapons Systems) team to develop a formally verified satellite software update system.

5/2018 - 08/2018

Graduate Teaching Assistant

Computer Science Department, Rensselaer Polytechnic Institute

- Calculus I & II (as a TA)
- Parallel Programming and Computing (as a TA)
- Foundations of Computer Science (as a TA)

8/2016 - 5/2018

Summer Research Assistant

Mathematics Department, Occidental College

- Researched applications of algebra, combinatorics, and graph theory in polyhedral networks.
- Designed and proved correctness of software to find all isomorphisms of a polyhedral network with a set of constraints.
- Continued research during the following academic year as a senior capstone project and paper.

6/2015 - 9/2015

Research Intern

Surface Hydrology Group, Jet Propulsion Laboratory

- Collected images of surface water levels that match radar images from the Soil Moisture Active Passive.
- Used QGIS and IDL to visually represent SMAP's accuracy in soil moisture measurements.

1/2015 - 6/2015

AWARDS & HONORS

Science, Mathematics And Research for Transformation Scholarship, 2018

RSA Conference 2018 Security Scholar, 2017

LANGUAGES

Significant experience with: C, Java, Python

Some experience with: C++, Haskell, OCaml, x86 Assembly

OCaml, Haskell, x86 Assembly, C++

OTHER SOFTWARE EXPERIENCE

Athena, Binary Ninja, Coq, Ghidra, IDA, LLVM, Pytorch, Tensorflow

OTHER ACTIVITIES

Occasional Capture the Flag (CTF) with **RPISEC**.