

Paul Krogmeier | CV

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Pursuing master's degree in computer engineering from Purdue University. Seeking PhD opportunities in computer science.

Experience

- **OPLSS 2017** **Eugene, Oregon**
Jun 2017
Oregon Programming Languages Summer School
Attended research lectures from experts in Programming Languages and Formal Methods. Participated in hands-on sessions for learning about current research software and techniques: Idris, PLT Redex
- **Deep Learning** **West Lafayette**
Sep 2016–Dec 2016
Purdue E-lab
Used Torch7 deep learning framework to find solutions to reinforcement learning and image classification problems
- **Software for HPC cluster administration** **Medellin, Colombia**
May 2016–Jul 2016
APOLO computing group
Developed software to produce client usage reports for a Linux Rocks cluster administrative team.
 - Wrote python scripts to generate reports on cluster load and usage characteristics
 - Interfaced with TORQUE and SLURM resource management systems
- **Embedded systems programming** **West Lafayette**
May 2014–Jul 2014
Purdue OADA undergraduate research team
Developed software for a wireless, embedded semi-truck weight sensing application. Built a tool for truck drivers to quickly learn the weight of their load through an app interface communicating wirelessly with an embedded circuit board
 - Interfaced Nordic nRF51822 SoC to air pressure sensors over I2C
 - Programmed communication between Android application and SoC using Bluetooth Low Energy stack

Publications

Krogmeier, P. M. and Kidd, S. and Delaware, B. Towards context-aware data refinement. Accepted to CoqPL 2018.

Education

Graduate.....

- **Purdue University** **West Lafayette**
2016–present
M.Eng. Computer Engineering, GPA: 3.98
 - **Teaching Assistant:**
 - ECE 369 – Discrete Math
 - **Masters Project**
 - Metatheory proofs for the Fiat specification language in Coq and developing theory of *context-aware* data refinement.

Undergraduate.....

- **Purdue University** **West Lafayette**
*B.S. Computer Engineering, **GPA: 4.0*** *2012–2016*
- **EAFIT University** **Medellin, Colombia**
Study Abroad, Compilers and Operating Systems courses *Spring 2015*

Courses.....

Graduate

CE 642 – Information Theory and Source Coding
CS 590 – Reasoning About Programs (Audit)
CE 573 – Compilers and Translator Systems
CE 608 – Computational Models and Methods
CE 600 – Probabilities and Random Processes
CS 565 – Programming Languages
CS 590 – Artificial Intelligence and Causal Inference
CS 584 – Theory of Computation and Complexity
CS 573 – Data Mining

Undergraduate

CE 368 – Algorithms and Data Structures
CE 369 – Discrete Math
CE 364 – Python and Bash Scripting Lab
CE 337 – ASIC Design Laboratory
CE 437 – Computer Architecture
CE 477 – Digital Systems Senior Design

Technical and Personal skills

- **Programming Languages:**
Strong experience: C/C++, Java, Python, Matlab, and Verilog
Basic experience: SML, Idris, Racket, x86 ISA, MIPS ISA, Lisp, Jekyll/HTML/(S)CSS
- **Research Software:** Coq, Rosette, Sketch, Fiat
- **Natural Languages:** Fluent in Spanish, German, and English (native)
- **Other:** Lead alto saxophone player in Purdue University Jazz Band

Awards and Honors

- **Purdue Ross Fellowship:** May 2016
- **Phi Beta Kappa:** May 2016
- **Graduated “with highest distinction” (top in class):** May 2016
- **100K Strong in the Americas Scholarship:** August 2014