Paulette Koronkevich

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Education

Present | **University of British Columbia**, Vancouver, BC, Canada
Software Practices Lab
M.Sc, Ph.D track in Computer Science

May 2019 | **Indiana University**, Bloomington, Indiana, USA
School of Informatics, Computing, and Engineering
Bachelor's of Science in Computer Science
MINORS: Mathematics, Slavic Studies

Honors & Awards

2015-2019 | Indiana University Cox Scholarship
given to ~40 incoming IU students for high academic performance along with a part-time job, and are required to maintain this throughout their undergraduate degree.

2015-2019 | School of Informatics, Computing, and Engineering Dean's List
given for maintaining a GPA above 3.7.

2018 | Second place at Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH 2018) Student Research Competition

2018 | Cornell, Maryland, and Max Planck Pre-Doctoral Research School (CMMRS) Travel Award

2017 | First place at the SICE Research & Projects Symposium
presented my compilers course project: One Weird Trick to Compile Call/cc.

2017 | Programming Languages Mentoring Workshop (PLMW) at the International Conference on Functional Programming Travel Award

Presentations

2019 | *Reigniting Fuse, an Online Partial Evaluator for Scheme*
Presented at: Scheme Workshop at the International Conference on Functional Programming (ICFP).

2018 | *Obsidian in the Rough: A Case Study Evaluation of a New Blockchain Programming Language*
Presented at: Midwest Programming Languages Summit (MWPLS); Systems, Pro-

gramming, Languages, and Applications: Software for Humanity (SPLASH) Student Research Competition.

Research Experience

2019   Senior thesis with Professor Sam Tobin-Hochstadt, developing a partial evaluator for linklets in the Racket language.

Summ. 2018   **Carnegie Mellon University**, Pittsburgh, Pennsylvania

- Conducted a case study evaluation of a blockchain programming language, Obsidian.

- Contributed to a new feature of the language as a result of this evaluation.

- Wrote and presented the work with a student research competition submission and poster.

Spring 2018   **Indiana University**, Bloomington, Indiana

- Contributed to a current research compiler, Gibbon, which optimizes traversals over tree data structures.

- Extended the current language from a first order language to a higher order language.

- Wrote a final report summarizing the work, citing the primary resources found and used.

Work Experience

Summ. 2019   **Galois Inc**, Portland, Oregon
Software Engineering/Research Intern

- Built a system that took a high level specification of an API and generated tests on random inputs.

- Developed a prototype of a typechecker for an advanced type system.

2016-2019   **Indiana University**, Bloomington, Indiana
IU Peer Coach

- Assisted all students with registering, scheduling, and planning classes.

- Held 8-10 appointment and drop-in hours to provide support for students one on one.

- Organized degree-planning workshops to help inform and prepare incoming students.

Summ. 2017   **JPMorgan Chase & Co**, Chicago, Illinois
Tech Analyst Intern

- Learned about various software development tools and the SDLC.

- Refactored an existing application to prepare it for cloud deployment.

- Recreated the user interface into a portable widget.

Teaching

Spring 2019	Introduction to Computer Science
Fall 2018	Programming Languages *&* Mapping Your Future
Spring 2018	Dependent Types
Fall 2017	Programming Languages
Spring 2017	Introduction to Computer Science, making instructional videos.
Fall 2016	Introduction to Computer Science
Spring 2016	Introduction to Computer Science

Service

2019	Student Volunteer at the International Conference on Functional Programming (ICFP).
2019	Student Volunteer at Programming Language Design and Implementation (PLDI).
2018	Organizational Committee for Opportunities for Undergraduate Research in Computer Science (OurCS), held at Indiana University in 2018. *Also served on a student research panel.*
2018	Student Volunteer at the International Conference on Functional Programming (ICFP).

Skills

Racket • Agda • Haskell • Java • Python

FOREIGN LANGUAGES

Russian