

Paulette Koronkevich

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Education

May 2019 **Indiana University**, Bloomington, Indiana
School of Informatics, Computing, and Engineering
Bachelor's of Science in Computer Science
MINORS: Mathematics, Slavic Studies
GPA: 4.0/4.0

Honors & Awards

2015-2018 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.

2015-2018 School of Informatics, Computing, and Engineering Dean's List
given for maintaining a GPA above 3.7.

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

2015 Direct Admission to the School of Informatics, Computing, and Engineering

Publications & Presentations

POSTER PRESENTATIONS

2018 *Obsidian in the Rough: A Case Study Evaluation of a New Blockchain Programming Language.*
Presented at: Midwest Programming Languages Summit (MWPLS); Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH) Student Research Competition.

WORKSHOP

- 2018 Paulette Koronkevich, *Obsidian In the Rough: A Case Study Evaluation of a New Blockchain Programming Language*, Student Research Competition, Companion of the 2018 ACM SIGPLAN International Conference on Systems, Programming, Languages, and Applications: Software for Humanity (Splash 2018), Boston, MA, 4-9 Nov 2018.

Research Experience

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

Summer 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.
- Explored any possible extensions to the compiler for future work.

Work Experience

2016-2018 **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.

Summer 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

Being an undergraduate teaching assistant involves holding weekly office hours, participating in an online forum and answering questions, grading homework and exams, and creating supplemental materials to aid student learning.

Fall 2018 Programming Languages & Mapping Your Future

Mapping Your Future is a half-semester course to assist exploratory students in finding a major. I am required to meet with half the students twice during this course to discuss options for their major and student involvement.

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

2018 Organizational Committee for Opportunities for Undergraduate Research in Computer Science (OurCS), held at Indiana University in 2018.
Also served on a panel for discussion about research opportunities.

2018 Student Volunteer at the International Conference on Functional Programming (ICFP).

Skills

Racket • Agda • Haskell • Java • Python

FOREIGN LANGUAGES

Russian