

# Benjamin Reidys

[breidys2@illinois.edu](mailto:breidys2@illinois.edu) | 230 Coordinated Science Laboratory, Urbana, IL | [breidys2.github.io](https://breidys2.github.io)

## EDUCATION

### PhD. Student in Computer Science

Urbana, IL | August 2020 - Present | 4.00 GPA

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Research assistant advised by Dr. Jian Huang

### BSc. in Computer Science and Mathematics

Blacksburg, Va | August 2016 - May 2020 | 3.96 GPA

VIRGINIA TECH

## PUBLICATIONS

### DDP

MICRO '21

**Distributed Data Persistency.** Apostolos Kokolis, Antonis Psistakis, [Benjamin Reidys](#), Jian Huang, Josep Torrellas. Proceedings of the 54th IEEE/ACM International Symposium on Microarchitecture. (MICRO '21).

- This paper introduces distributed data persistency which merges existing distributed consistency and memory persistency models and analyzes the tradeoffs of different models.

### UNIHEAP

SYSTOR '21

**Uniheap: Managing Persistent Objects Across Managed Runtimes for Non-Volatile Memory.** Daixuan Li, [Benjamin Reidys](#), Jinghan Sun, Thomas Shull, Josep Torrellas, Jian Huang. Proceedings of the 14th ACM International System and Storage Conference. (SYSTOR '21).

- This paper presents a framework that allows adding persistence to any managed runtime with minimal coding overhead. In addition to persistence, it allows the sharing of objects across runtimes with low overhead.

## WORK EXPERIENCE

**VT'S CS3214 INTRO TO OS** | UNDERGRADUATE TEACHING ASSISTANT      Blacksburg, Va | Aug 2019 - May 2020

- Hosted office hours answering student questions and assisting students with debugging their project code.

**NDSS LABORATORY** | UNDERGRADUATE RESEARCH ASSISTANT      Blacksburg, Va | Aug 2016 - May 2018

- Developed an architecture for scraping periscope streams from twitter as data collection.

**LOS ALAMOS NATIONAL LAB CCS-3 GROUP** | INTERN      Los Alamos, Nm | Summer 2015-17,2020

- Benchmarked and applied parallel discrete event simulators
- Implemented HPC benchmarks for benchmarking in the Performance Prediction Toolkit.

## PROGRAMMING ACTIVITIES

- **International Collegiate Programming Contest (ICPC) (2018-2020)**
  - 56th of 117 teams at the 2021 World Finals
  - 21st of 59 teams at the 2020 North American Championships
  - 5th of 160 teams at the 2019 MidAtlantic Regional Contest
  - 30th of 183 teams at the 2018 MidAtlantic Regional Contest

## HONORS AND AWARDS

- Phi Beta Kappa Membership (Spring 2018)
- Robert Earl Spencer and Dr. Herbert Earl Spencer Scholarship (2018-19)
- CS Junior Scholar Award (Spring 2019)
- CS Sophomore Scholar Award (Spring 2018)
- Dean's List with Distinction (Every semester except Spring 2019)
- Computer Science Research Consortium Scholarship (2017-18)
- Investment in Excellence Scholarship (2017-18)
- Pratt Engineering Scholarship (Spring 2017)