ZEYU (DING) DING

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n github.com/zeyudd

EDUCATION

PhD, Computer Science and Engineering

Pennsylvania State University

State College, PA

• Advisor: Daniel Kifer, Danfeng Zhang

GPA: 3.97/4.0

• Research area: differential privacy and software security

MS, Computer Science

SUNY Binghamton

P Binghamton, NY

• Advisor: Lijun Yin

GPA: 4.0/4.0

• Research area: facial expression recognition

PhD. Mathematics

SUNY Binghamton

12/2015

P Binghamton, NY

Advisor: Adrian Vasiu

GPA: 4.0/4.0

• Research area: algebraic number theory

BS, Mathematics

Zhejiang University

• Chu Kochen Honors College

Top 3%, GPA: 3.86/4.0

SELECTED PUBLICATIONS

- PVLDB'19] Free Gap Information from the Differentially Private Sparse Vector and Noisy Max Mechanisms. with Yuxin Wang, Danfeng Zhang and Danniel Kifer
- [PLDI'19] Proving Differential Privacy with Shadow Execution. with Yuxin Wang, Daniel Kifer and Danfeng Zhang
- [CCS'18] Detecting Violations of Differential Privacy. with Yuxin Wang, Guanhong Wang, Danfeng Zhang and Danniel Kifer **Outstanding Paper Award**

SELECTED PROJECTS

ShadowDP

• A language tool for formally verifying differentially private programs, consisting of a type system, a code transformation engine and a solver (Z3), based on our [PLDI'19] paper

StatDP

• An automated tool for detecting differential privacy violations via sampling and statistical hypothesis testing, based on our [CSS'18] paper

Linear Algebra Testing Center

• An open-source online testing system (WeBWork) for administrating guizzes and screening tests for the Linear Algebra class (Math304) of the Dept. of Mathematics, SUNY Binghamton

EXPERIENCE

Research Assistant

Pennsylvania State University

• Specializes in differential privacy and its interactions with software security, formal methods, statistical inference, numerical optimization and machine learning

Teaching Assistant

SUNY Binghamton

 Led lab sessions and graded tests/homework for the Data Structures and Algorithms class (CS240) of the Dept. of Computer Science

Adjunct Lecturer

SUNY Binghamton

- Independently taught the following courses in the Dept. of Mathematics: Calculus I, II and III, Linear Algebra, Discrete Mathematics, Number Systems and Differential Equations
- Received excellent teaching evaluations

HONORS & AWARDS

Graduate Student Research Award

Pennsylvania State University

₩ 05/2019

State College, PA

Outstanding Paper Award

ACM SIGSAC Conference on Computer and Communications Security 2018 (CCS '18)

10/2018

♥ Toronto, Canada

Best Thesis Award

Zhejiang University

∰ 06/2006

First-Class Academic Excellence Scholarship Zhejiang University

₩ 06/2004

♥ Hangzhou, China

SKILLS

Programming Languages

Confident: C, C++, Python, LTFX Familiar: Java, Matlab, Haskell, Scheme, JavaScript/HTML/CSS