

# JASON DAVID LIU

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## RESEARCH INTERESTS

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Security & Privacy; Operating Systems; Data Provenance

## EDUCATION

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**University of Illinois at Urbana-Champaign**, Grainger College of Engineering

**Expected May 2026**

Ph.D., Department of Computer Science

GPA: 3.92/4.0

**Cornell University**, College of Engineering

**May 2019**

B.S., Robert Frederick Smith School of Chemical and Biomolecular Engineering

B.S., Department of Computer Science

GPA: 3.84/4.0

## AWARDS & HONORS

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**3rd Place in Individual Points Scored**, TracerFire X, UIUC

**Mar 2022**

**Magna cum laude**, Cornell University

**May 2019**

**Engineering Dean's List**, Cornell University

**Fall 2015 – Spring 2019**

**2nd Place Best Poster Award**, SRC TECHCON 2018

**September 2018**

**ELI Undergraduate Research Award**, Cornell University

**Jan 2017 – May 2018**

## CONFERENCE PUBLICATIONS

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- C5. Muhammad Adil Inam, Yinfang Chen, Akul Goyal, **Jason Liu**, Jaron Mink, Noor Michael, Sneha Gaur, Adam Bates, and Wajih Ul Hassan. SoK: History is a Vast Early Warning System: Auditing the Provenance of System Intrusions. In *2023 IEEE Symposium on Security and Privacy (SP)*, 2023.
- C4. Muhammad Adil Inam, Akul Goyal, **Jason Liu**, Jaron Mink, Noor Michael, Sneha Gaur, Adam Bates, and Wajih Ul Hassan. FAuST: Striking a Bargain between Forensic Auditing's Security and Throughput. In *Proceedings of the 38th Annual Computer Security Applications Conference, ACSAC '22*, page 813–826, New York, NY, USA, 2022. Association for Computing Machinery.
- C3. **Jason Liu**, Anant Kandikuppa, and Adam Bates. Transparent DIFC: Harnessing Innate Application Event Logging for Fine-Grained Decentralized Information Flow Control. In *2022 IEEE European Symposium on Security and Privacy (EuroS&P)*, pages 487–501, 2022.
- C2. Noor Michael, Jaron Mink, **Jason Liu**, Sneha Gaur, Wajih Ul Hassan, and Adam Bates. On the Forensic Validity of Approximated Audit Logs. In *Annual Computer Security Applications Conference, ACSAC '20*, page 189–202, New York, NY, USA, 2020. Association for Computing Machinery.
- C1. Mardochee Reveil, Hsien-Lien Huang, Huang-Ta Chen, **Jason Liu**, Michael O. Thompson, and Paulette Clancy. *Ab Initio* Studies of the Diffusion of Intrinsic Defects and Silicon Dopants in Bulk InAs. *Langmuir*, 33(42):11484–11489, Sep 2017.

## POSTERS

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- P3. **Jason Liu**, Andy Riddle, Kim Westfall, and Adam Bates. What Behaviors Are in Your System Log Dataset? In *2023 IEEE Symposium on Security and Privacy (SP)*, 2023.
- P2. **Jason Liu**, Blaire Sorenson, Henry Herbol, and Paulette Clancy. Poster: Modeling Lead-Halide Solubility for Better Solar Cells. In *SRC TECHCON 2018*, 2018.
- P1. **Jason Liu**, Blaire Sorenson, Henry Herbol, and Paulette Clancy. Poster: Understanding Solvent Blend Packing Around Lead Ions for Solar Cell Processing. In *2018 ASEE St. Lawrence Section Meeting*, 2018.

## INVITED TALKS

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- T3. **FAuST: Striking a Bargain between Forensic Auditing's Security and Throughput**, 38th Annual Computer Security Applications Conference (ACSAC), December 5-9, 2022.
- T2. **Transparent DIFC: Harnessing Innate Application Event Logging for Fine-Grained Decentralized Information Flow Control**, 7th IEEE European Symposium on Security & Privacy (EuroS&P), June 6-10, 2022.
- T1. **Modeling Lead-Halide Solubility for Better Solar Cells**, SRC TECHCON 2018, September 16-18, 2018.

## PROFESSIONAL EXPERIENCE

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- Research Intern**, Sandia National Laboratories **May 2023 – Present**  
Developed methods for differential privacy, industrial control system (ICS) datasets
- Research Intern**, StellarCyber **May 2021 – Dec 2021**  
Focused on methods to replicate realistic attack scenarios  
Investigated recent attack reports and created framework to automate red team tools

## ACADEMIC EXPERIENCE

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- Graduate Research Assistant**, University of Illinois at Urbana-Champaign **Aug 2020 – Dec 2020**  
*Secure & Transparent Systems Laboratory*, led by Prof. Adam Bates **Aug 2021 – present**
- Graduate Teaching Assistant**, University of Illinois at Urbana-Champaign **Jan 2021 – May 2021**  
*Operating Systems Design* **Aug 2019 – May 2020**  
*Interactive Computer Graphics*
- Undergraduate Teaching Assistant**, Cornell University **Jan 2019 – Mar 2019**  
*UNIX Tools & Scripting* **Aug 2018 – Dec 2018**  
*Computer Graphics* **May 2018 – Dec 2018**  
*Heat and Mass Transfer* **Aug 2016 – May 2018**  
*Objected-Oriented Programming and Data Structures*
- General Chemistry Academic Excellence Workshop**, *Facilitator*, Cornell University **Aug 2016 – Dec 2016**

## SERVICE

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- External Reviewer**  
EuroS&P 2022
- CS SAIL Teacher**, University of Illinois at Urbana-Champaign **Apr 2023**  
*Cybersecurity Ninja Training*