Yuncong Hu

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EDUCATION

University of California at Berkeley, USA   Aug. 2017 - Present
Ph.D., Computer Science
Advisor: Raluca Ada Popa and Alessandro Chiesa

University of California at Berkeley, USA   Aug. 2017 - May. 2020
Master, Computer Science
Advisor: Raluca Ada Popa and Alessandro Chiesa

Shanghai Jiao Tong University(SJTU), China   Sept. 2013 - Jun. 2017
B.S., Computer Science (ACM Honored Class), Zhiyuan College

PUBLICATIONS

- **Gemini: elastic SNARKs for diverse environments**   In Submission
  (alphabetical order) Jonathan Bootle, Alessandro Chiesa, **Yuncong Hu** and Michele Orrù

- **Non-Interactive Differentially Anonymous Router**   In Submission
  (alphabetical order) Benedikt Bünz, **Yuncong Hu**, Shin'ichiro Matsuo and Elaine Shi

- **Merkle^2: A Low-Latency Transparency log system**   IEEE S&P 2021
  Yuncong Hu, Kian Hooshmand, Harika Kalidhindi, Seung Jin Yang and Raluca Ada Popa

- **Marlin: Preprocessing zkSNARKs with Universal and Updatable SRS**   EUROCRYPT 2020
  (alphabetical order) Alessandro Chiesa, **Yuncong Hu**, Mary Maller, Pratyush Mishra, Noah Vesely and Nicholas P. Ward

- **Ghostor: Toward a Secure Data-Sharing System from Decentralized Trust**   NSDI 2020
  Yuncong Hu*, Sam Kumar* and Raluca Ada Popa (*co-primary author)

- **JEDI: Many-to-Many End-to-End Encryption and Key Delegation for IoT**   USENIX Security 2019
  Sam Kumar, **Yuncong Hu**, Michael P Andersen, Raluca Ada Popa and David E. Culler

HONORS AND AWARDS

- **Berkeley Graduate Division Conference Travel Grant**, University of California, Berkeley, 2020
- **Boot Camp Project Grand Prize Winners (top 1)**, IC3-Ethereum Crypto Boot Camp and Workshop, 2016

  - Blog: *https://z.cash/blog/zksnarks-in-ethereum.html*

  - Report: *https://www.initc3.org/events/2016-07-20-ic3-ethereum-crypto-boot-camp-and-workshop-at-cornell-university*

- **Hui-Chun Chin and Tsung-Dao Lee Chinese Undergraduate Research Endowment Receiver**, Shanghai Jiao Tong University, 2016
- **Academic Excellence Scholarship (top 5% in SJTU)**, Shanghai Jiao Tong University, 2015
- **Academic Excellence Scholarship (top 5% in SJTU)**, Shanghai Jiao Tong University, 2014
- **"AStar" Finalists (top 50 over 7000 contestants)**, Programming Contest hold by Baidu, 2014
- ACM-ICPC (International Collegiate Programming Contest) Asia Regional
    - **10th Place** in Taichung site & **The First Blood Prize** in Xian site, 2014
    - **Gold Medal** in Hangzhou site, 2013
- **Silver medal (recommended for admission to SJTU)**, National Olympiad in Informatics, China, 2012

TALKS AND POSTER PRESENTATIONS

- **Non-Interactive Differentially Anonymous Router**
    - NTT Research Blockchain Group Meeting 2021.
    - NTT Research CIS Lab Meeting 2021.
- **Merkle^2: A Low-Latency Transparency log system**
    - RISELab Retreat Summer 2021.
    - The 42nd IEEE Symposium on Security and Privacy (IEEE S&P 2021).
- **Marlin: Preprocessing zkSNARKs with Universal and Updatable SRS**
    - RISELab Retreat Summer 2021.
    - The 39th Annual International Conference on the Theory and Applications of Cryptographic Techniques (Eurocrypt 2020).
- **Ghostor: Toward a Secure Data-Sharing System from Decentralized Trust**
    - RISELab Retreat Winter 2020, Summer 2019, Winter 2019, Summer 2018.
    - Microsoft Research Redmond Cryptography Colloquium 2020.
- **JEDI: Many-to-Many End-to-End Encryption and Key Delegation for IoT**
    - RISELab Retreat Summer 2019, Summer 2018, Winter 2018.
    - Stanford Secure Internet of Things Project 2018.

TEACHING EXPERIENCE

- Teaching Assistant in Computer Security (CS161), University of California at Berkeley — Fall 2021
- Teaching Assistant in Security in Computer Systems (CS261), University of California at Berkeley — Fall 2018
- Teaching Assistant in Database System of ACM Honored Class, SJTU — Spring 2017
- Teaching Assistant in Compiler Design and Implementation of ACM Honored Class, SJTU — Spring 2016

SERVICES

- Developer and co-author of the *arkworks* ecosystem.
- Reviewer: TDSC 2021.
- External Reviewer/Sub-Reviewer: Crypto 2021, PKC 2021, SOSP 2021, IEEE S&P 2020, SOSP 2019, OSDI 2018, NSDI 2018.
- Student Volunteer: FCS 2020, UC Berkeley Graduate Application Student Reviewer 2018, UC Berkeley Security Reading Group Organizer 2018.