



CNS 2019 Research Review Agenda

Thursday, October 10, 2019

- 8:30 a.m. **Breakfast** [Computer Science and Engineering building at UC San Diego]
- 9:00 a.m. **Welcome and Round Table Introductions**
Stefan Savage, CNS Co-Director and CSE Professor
- 9:15 a.m. **Stefan Savage – Session Chair**
- Weak Cryptographic Signatures in Cryptocurrencies (30 min.)**
Nadia Heninger, CSE Faculty
- Measuring Security Practices and How They Impact Security (30 min.)**
Audrey Randall, CSE Graduate Student (Geoff Voelker, Stefan Savage, and Aaron Schulman)
- Detecting Bluetooth-Enabled Credit Card Skimming at Gas Stations (15 min.)**
Nishant Bhaskar, CSE Graduate Students (Aaron Schulman)
- 10:30 a.m. **Break and Informal Interaction (15 min.)**
- 10:45 a.m. **Geoff Voelker – Session Chair**
- Farewell to Servers: Software and Hardware Approaches towards Datacenter Resource Disaggregation and Serverless Computing (30 min.)**
Yiyang Zhang, CSE Faculty
- An Empirical Guide to Using 3DXPoint Memory (30 min.)**
Steven Swanson, CSE Faculty
- Designing a Scalable “instant on” Lambda Network (15 min.)**
Shelby Thomas and Lixiang Ao, CSE Graduate Student (George Porter and Geoff Voelker)
- 12:00 p.m. **Group Photograph** [Bear Sculpture outside of Computer Science and Engineering]
- 12:15 p.m. **Lunch** [Atkinson Hall Patio]
- 1:45 p.m. **Alex Snoeren - Session Chair**
- Residential Links Under the Weather (Research with Aaron Schulman) (30 min.)**
Ramakrishna Padmanabhan, Postdoctoral Researcher CAIDA (Alberto Dainotti/CAIDA)
- Efficient Receiver Architecture for Wideband SDRs (30 min.)**
Moein Khazaraee, CSE Graduate Student (Aaron Schulman)
- A Software-Reconfigurable Federated Avionics Testbed (15 min.)**
Sam Crow, CSE Graduate Student (Stefan Savage and Aaron Schulman)
- A Large Scale Measurement of Threat Intelligence Usage on the Internet (15 min.)**
Vector Guo Li, CSE Graduate Student (Stefan Savage)
- 3:15 p.m. **Break and Informal Interaction (30 min.)**
- 3:45 p.m. **Aaron Schulman – Session Chair**
- Hack for Hire: Exploring the Emerging Market for Account Hijacking (30 min.)**
Ariana Mirian, CSE Graduate Student (Stefan Savage and Geoff Voelker)
- An End-to-End Neural Program Decompiler (30 min.)**
Cheng Fu, CSE Graduate Student (Jishen Zhao)
- Type-Driven Secure Cryptography for the Web Ecosystem (30 min.)**
John Renner, CSE Graduate Student (Deian Stefan)
- 5:15 p.m. **Lightning Talks – Graduate Students and Industry Representatives (45 min.)**
- 6:00 p.m. **Graduate Student Poster Session and Dinner Reception** [Great Hall]



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9:00 a.m. **Breakfast** [Computer Science and Engineering building at UC San Diego]

9:30 a.m. **George Porter - Session Chair**

Towards Continuous Access Control Validation and Forensics (30 min.)

Chengcheng Xiang, CSE Graduate Student (YY Zhou)

Resource-Efficient and Reproducible Model Selection on Deep Learning Systems (30 min.)

Supun Nakandala, CSE Graduate Student (Arun Kumar)

Sub-Zero: Avoiding Data Movement in Persistent Main Memory Storage Systems (30 min.)

Juno Kim, CSE Graduate Student (Steve Swanson)

Supporting Low Latency Traffic on an all Optical Network (30 min.)

George Porter, CSE Faculty and CNS Co-director

11:30 a.m. **Open Floor** [*feedback from company representatives*]

12:00 p.m. **Lunch** [Computer Science and Engineering building at UC San Diego]

*All sessions held in the UC San Diego Computer Science and Engineering Department.