CNS Research Review Agenda, Thursday, May 4, 2023

8:30 a.m. **Breakfast** [Computer Science and Engineering building at UC San Diego, Room 1242]

9:00 a.m. **Welcome and Round Table Introductions**
Stefan Savage and George Porter, CNS Co-Directors and CSE Professors

9:15 a.m. **Stefan Savage - Session Chair**

- **Zed: Leveraging Data Types to Process Eclectic Data (30)**
  Presenter: Amy Ousterhout, CNS/CSE Faculty
- **Lowering the Embodied and Operational Carbon of Datacenters (15)**
  Presenter: Amanda Tomlinson, CNS/CSE Graduate Student (George Porter)
- **TagAlong: A Free, Wide-Area Data-Muling Services Built on the AirTag Protocol (30)**
  Presenter: Alex Bellon, CNS/CSE Graduate Student (Pat Pannuto, Deian Stefan)

10:30 a.m. **Break and Informal Interaction (15 minutes)**

10:45 a.m. **Pat Pannuto - Session Chair**

- **Resource-Centric Serverless Computing (30)**
  Presenter: Zhiyuan Guo, CNS/CSE Graduate Student (Yiying Zhang)
- **No Privacy Among Spies: Assessing the Functionality and Insecurity of Consumer Android Spyware Apps (15)**
  Presenter: Enze "Alex" Liu, CNS/CSE Graduate Student (Stefan Savage, Geoff Voelker)
- **Securing the Rust Supply-chain Ecosystem (30)**
  Presenter: Caleb Stanford, Postdoctoral Researcher

12:00 p.m. **Group Photograph** [Bear Sculpture outside of Computer Science and Engineering]

12:15 p.m. **Lunch** [CSE Room 1202]

1:45 p.m. **George Porter - Session Chair**

- **Healthcare Impact of Ransomware (30)**
  Presenter: Christian Dameff, MD, CNS Faculty, Assistant Professor, Department of Emergency Medicine
- **Inferring Topology and Assessing Risk to Internet Access Networks (30)**
  Presenter: Zesen "Jason" Zhang, CNS/CSE Graduate Student (k claffy, Aaron Schulman)
- **The Challenges of Blockchain-based Naming Systems for Malware Defenders (30)**
  Presenter: Audrey Randall, CNS/CSE Graduate Student (Aaron Schulman, Geoff Voelker, Stefan Savage)

3:15 p.m. **Break and Informal Interaction (30 minutes)**

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CNS
CENTER FOR NETWORKED SYSTEMS

Day One / CNS Research Review Agenda, Thursday, May 4, 2023

3:45 p.m. **Geoff Voelker - Session Chair**

- **Lotan: Bridging the Gap between GNNs and Scalable Graph Analytics Engines (15)**
  Presenter: Yuhao Zhang, CNS/CSE Graduate Student (Arun Kumar)
- **Saturn: Unifying Parallelism, Resource Allocation, and Scheduling for Multi-Large-Model Deep Learning (15)**
  Presenter: Kabir Nagrecha, CNS/CSE Graduate Student (Arun Kumar)
- **EffiSenseSee: Towards Classifying Light Bulb Types and Energy Efficiency with Camera-Based Sensing (15)**
  Presenter: Alex Yen, CNS/CSE Graduate Student (Pat Pannuto)
- **Retroactive Identification of Targeted DNS Infrastructure Hijacking (30)**
  Presenter: Geoffrey M. Voelker, CNS/CSE Faculty

5:00 p.m. **Lightning Talks – Graduate Students and Industry Representatives (30 minutes)**

6:00 p.m. **Graduate Student Poster Session and Dinner Reception**
[The 15th-floor meeting rooms at Seventh College]

Day Two / CNS Research Review Agenda, Friday, May 5, 2023

9:00 a.m. **Breakfast** [Computer Science and Engineering building at UC San Diego, Room 1242]

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

- **MultiView: Finding Blind Spots in Access-Deny Issues (30)**
  Presenter: Tianyi Shan, CNS/CSE Graduate Student (YY Zhou)
- **WaVe: a Verifiably Secure WebAssembly Sandboxing Runtime (30)**
  Presenter: Evan Johnson, CNS/CSE Graduate Student (Deian Stefan, Stefan Savage)
- **Surveillance Risks in Client-Side Content Scanning (30)**
  Presenter: Earlence Fernandes, CNS/CSE Faculty
- **A Metric for Factoring Data Movement into Chasing the Sun (15)**
  Presenter: Yibo Guo, CNS/CSE Graduate Student (George Porter)
- **Passive Compromise of RSA Secret Keys Through Spontaneous Signature Faults (30)**
  Presenters: Keegan Ryan and George Arnold Sullivan, CNS/CSE Graduate Students (Nadia Heninger)

11:45 a.m. **Open Floor** [Feedback from company representatives]

12:00 p.m. **Lunch and CNS Research Review Conclusion** [CSE Room 1202]

CNS Research Review Conclusion