



# CNS 2018 Research Review Agenda

**Thursday, October 25, 2018**

- 8:45 a.m.     **Breakfast** [The Institute of the Americas Complex, Malamud Room at the Weaver Conference Center]
- 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**
- Expanding Across Time to Deliver Bandwidth Efficiency and Low Latency (30 min.)**  
Max Mellette, CSE Postdoctoral Scholar (George Porter)
- Inferring Persistent Interdomain Congestion (30 min.)**  
Amogh Dhamdhere, Caida Associate Research Scientist
- High-Resolution Spectrum Monitoring (15 min.)**  
Yeswanth Guddeti, ECE Graduate Student (Dinesh Bharadia and Aaron Schulman)
- 10:30 a.m.    **Break and Informal Interaction (15 min.)**
- 10:45 a.m.    **Geoff Voelker – Session Chair**
- Finding and Fixing Performance Pathologies in Persistent Memory Storage Stacks (30 min.)**  
Juno Kim, CSE Graduate Student (Steven Swanson)
- Orion: A Distributed Persistent Memory File System (30 min.)**  
Jian Yang, CSE Graduate Student (Steven Swanson)
- 11:45 a.m.    **Group photograph** [Institute of the Americas Courtyard]
- 12:00 p.m.    **Lunch** [Great Hall] **and Industry Member Lightning Talk Sign-up**
- 1:30 p.m.     **Deian Stefan - Session Chair**
- Inferring Information Flow in Large-Scale Heterogeneous Systems (30 min.)**  
Gary Soeller, CSE Graduate Student (Deian Stefan)
- A Framework for Writing Verified IOT Programs Using LowStar (30 min.)**  
Shravan Ravi Narayan, CSE Graduate Student (Deian Stefan)
- ADVERSE: Automated Discovery of Vulnerabilities and Exploits Using Reverse Symbolic Execution (30 min.)**  
Craig Disselkoen, CSE Graduate Student (Deian Stefan)
- 3:00 p.m.     **Break and Informal Interaction (30 min.)**
- 3:30 p.m.     **George Porter – Session Chair**
- Pangolin: A Fault-Tolerant Persistent Programming Library (15 min.)**  
Lu Zhang, CSE Graduate Student (Steven Swanson)
- Following Their Footsteps: Characterizing Account Automation Abuse and Defenses (30 min.)**  
Louis DeKoven, CSE Graduate Student (Stefan Savage and Geoff Voelker)
- Detecting Bluetooth-Enabled Credit Card Skimming at Gas Stations (30 min.)**  
Nishant Bhaskar and Maxwell Bland, CSE Graduate Students (Aaron Schulman)
- 4:45 p.m.     **Break and Informal Interaction (15 min.)**
- 5:00 p.m.     **Industry Talk**  
**Pain Points: How are Endpoint Security Customers and Vulnerable Populations Hurting? (20 min.)**  
Kevin Alejandro Roundy, Technical Director at Symantec Research Labs
- 5:20 p.m.     **Lightning talks – Graduate Students and Industry Representatives (40 min.)**
- 6:00 p.m.     **Graduate Student Poster Session and Dinner Reception** [Great Hall]



# CNS 2018 Research Review Agenda

## Friday, October 26, 2018

9:00 a.m. **Breakfast** [The Institute of the Americas Complex, Malamud Room at the Weaver Conference Center]

9:30 a.m. **Arun Kumar - Session Chair**

**Sprocket: A Serverless Video Processing Framework for the Cloud (30 min.)**

Lixiang Ao, CSE Graduate Student (George Porter)

**Declarative Transfer Learning from Deep CNNs at Scale (30 min.)**

Supun Nakandala, CSE Graduate Student (Arun Kumar)

**Hierarchical Learning and Inference Beyond the Edge (30 min.)**

Anthony Thomas, CSE Graduate Student (Tajana Rosing)

**Towards Optimized Distributed ML Systems (30 min.)**

Arun Kumar, CSE/CNS Faculty

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

12:00 p.m. **Lunch** [The Institute of the Americas Complex, Arango Foyer and Deutz Room]

\*All sessions held in the Institute of the Americas Complex, Malamud Room at the Weaver Conference Center unless otherwise noted.