Anqi Chen

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	Cell: (857) 385-9318

Boston, MA

EDUCATION

Northeastern University, Boston, MA

PhD in Cybersecurity   **Sep. 2022 – present**
- Expected Graduation: May. 2027
- Advisor: Dr. Cristina Nita-Rotaru

Peking University, Beijing, China

BS in Computer Science   **Sep. 2018 – Jun. 2022**

RESEARCH INTERESTS

Stateful Network Protocol Fuzzing, Formal Methods (e.g. verification and synthesis)

PROFESSIONAL EXPERIENCE

Northeastern University, Boston, MA   **Sep. 2022 – present**
Research Assistant, Networks and Distributed Systems Security Lab
- *VPN Protocol Vulnerability Discovery (work in progress):* Design and implement a fuzzing tool to automatically discover vulnerabilities or issues in VPN protocol implementations, currently focusing on OpenVPN.
- *Autonomous Vehicle Security:* Designed and implemented an Automatic Emergency Braking System(AEBS) in the CARLA simulation platform, which helped provide a realistic testing environment for an optimization-based method to adaptively generate image perturbations at run-time.

Peking University, Beijing, China   **Jun. 2021 – Oct. 2021**
Remote Research, advised by Dr. Tianhao Wang, Assistant Professor at UVA
- *DPSyn: an Open-source Differential Privacy Tool:* Implemented a tool [github link] for synthesizing microdata for data analysis while satisfying differential privacy, based on the algorithm proposed in the paper PrivSyn: Differentially Private Data Synthesis.

PUBLICATIONS

Runtime Stealthy Perception Attacks against DNN-based Adaptive Cruise Control Systems   **Apr. 2024**
Xugui Zhou, **Anqi Chen**, Maxfield Kouzel, Haotian Ren, Morgan McCarty, Cristina Nita-Rotaru, Homa Alemzadeh
arXiv: 2307.08939

TEACHING

Northeastern University, Boston, MA
- CS6240: Large-Scale Parallel Data Processing, Teaching Assistant, Spring 2024
- CY4740: Network Security, Teaching Assistant, Fall 2023

LANGUAGES AND TECHNOLOGIES

- Python, C/C++, NuXMV, TAMARIN, Bash, MATLAB, SQL, JSON, LaTeX
- Linux, Windows, Mac OSX
- Git, Docker, OpenPilot, CARLA

HORNORS AND AWARDS

- The Highest Award in 2020 Differential Privacy Temporal Map Challenge: Open Source and Development Contest, NIST PSCR (2021)
- Merit Scholarship, Peking University (2021)
- Award for Scientific Research, Peking University (2021)
- Excellent Volunteer, Peking University (2020)