

Gang Wang

Assistant Professor of Computer Science
University of Illinois at Urbana-Champaign (UIUC)

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EDUCATION

University of California, Santa Barbara, Santa Barbara, CA. 2010 – 2016
Ph.D. in Computer Science
Advisors: Ben Y. Zhao, and Heather Zheng

Tsinghua University, Beijing, China. 2006 – 2010
Bachelor of Engineering, Electronic Engineering

APPOINTMENTS

University of Illinois at Urbana-Champaign, Urbana, IL.
Assistant Professor, Department of Computer Science Aug. 2019 – Present
Affiliate Faculty, Department of Electrical and Computer Engineering Nov. 2020 – Present

Virginia Tech, Blacksburg, VA.
Assistant Professor, Department of Computer Science Aug. 2016 – Aug. 2019

Microsoft Research, Redmond, WA.
Research Intern; with Jay Stokes, Weidong Cui, and Helen Wang Jun. 2014 – Sep. 2014

LinkedIn, Mountain View, CA.
Data Scientist Intern; with Vicente Silveira, and Karthik Ramasamy Jun. 2012 – Sep. 2012

Microsoft Research, Redmond, WA.
Research Intern; with Cormac Herley, and Jay Stokes Jun. 2011 – Sep. 2011

RESEARCH INTERESTS

Security and Privacy; Data Mining; Internet Measurement; Human Computer Interaction

AWARDS

Teacher Ranked as Excellent/Outstanding by their Students, *UIUC* (2019, 2020)
IMWUT Distinguished Paper Award (2019)
Outstanding New Assistant Professor Award, *Virginia Tech* (2019)
ACM CCS Outstanding Paper Award, *ACM CCS* (2018)
NSF CAREER Award, *NSF* (2018)
Google Faculty Research Award, *Google* (2017-2018)
Assistant Professor Mentoring Award, *Virginia Tech* (2016)
Outstanding Dissertation Award, *UC Santa Barbara* (2016)
Graduate Division Dissertation Fellowship, *UC Santa Barbara* (2015-2016)
SIGMETRICS Best Practical Paper Award, *ACM SIGMETRICS* (2013)
Scholarship for Academic Excellence, *Tsinghua University* (2007-2009)

PUBLICATIONS

Refereed Conference Proceedings

1. **[USENIX Security '21]** Limin Yang, Wenbo Guo, Qingying Hao, Arridhana Ciptadi, Ali Ahmadzadeh, Xinyu Xing, and **Gang Wang**. "CADE: Detecting and Explaining Concept Drift Samples for Security Applications." In Proceedings of *The 30th USENIX Security Symposium (USENIX Security)*, Vancouver, BC, Canada, August 2021 (**Artifact Evaluated**).
2. **[USENIX Security '21]** Hang Hu, Steve T.K. Jan, Yang Wang, and **Gang Wang**. "Assessing Browser-level Defense against IDN-based Phishing." In Proceedings of *The 30th USENIX Security Symposium (USENIX Security)*, Vancouver, BC, Canada, August 2021.
3. **[AsiaCCS '21]** Trung Tin Nguyen, Duc Cuong Nguyen, Michael Schilling, **Gang Wang**, and Michael Backes. "Measuring User Perception for Detecting Unexpected Access to Sensitive Resource in Mobile Apps." In Proceedings of *The ACM Asia Conference on Computer and Communications Security (AsiaCCS)*, Hong Kong, China, June 2021.
4. **[NDSS '21]** Junjie Liang, Wenbo Guo, Tongbo Luo, Vasant Honavar, **Gang Wang**, and Xinyu Xing. "FARE: Enabling Fine-grained Attack Categorization under Low-quality Labeled Data." In Proceedings of *The Network and Distributed System Security Symposium (NDSS)*, Virtual Conference, February 2021.
5. **[IMWUT/UbiComp '20]** Faysal Hossain Shezan, Hang Hu, **Gang Wang**, and Yuan Tian. "VerHealth: Vetting Medical Voice Applications through Policy Enforcement." In Proceedings of *The ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, December 2020.
6. **[USENIX Security '20]** Shuofei Zhu, Jianjun Shi, Limin Yang, Boqin Qin, Ziyi Zhang, Linhai Song and **Gang Wang**. "Measuring and Modeling the Label Dynamics of Online Anti-Malware Engines." In Proceedings of *The 29th USENIX Security Symposium (USENIX Security)*, Boston, MA, August 2020 (**Artifact Evaluated**).
7. **[IEEE SP '20]** Steve T.K. Jan, Qingying Hao, Tianrui Hu, Jiameng Pu, Sonal Oswal, **Gang Wang**, and Bimal Viswanath. "Throwing Darts in the Dark? Detecting Bots with Limited Data using Neural Data Augmentation." In Proceedings of *The 41st IEEE Symposium on Security and Privacy (IEEE SP)*, San Francisco, CA, May 2020.
8. **[WWW '20]** Faysal Hossain Shezan, Hang Hu, Jiamin Wang, **Gang Wang**, and Yuan Tian. "Read Between the Lines: An Empirical Measurement of Sensitive Applications of Voice Personal Assistant Systems." In Proceedings of *The Web Conference (WWW)*, Taipei, April 2020.
9. **[CCS '19]** Sazzadur Rahaman, **Gang Wang**, and Danfeng Yao. "Security Certification in Payment Card Industry: Testbeds, Measurements, and Recommendations." In Proceedings of *The 26th ACM Conference on Computer and Communications Security (CCS)*, London, UK, November 2019 (**CSAW '20 Applied Research Competition Finalist**).
10. **[IMC '19]** Mshabab Alrizah, Sencun Zhu, Xinyu Xing, and **Gang Wang**. "Errors, Misunderstandings, and Vulnerabilities: Analyzing the Crowdsourcing Process of Ad-blocking Systems." In Proceedings of *The ACM SIGCOMM Internet Measurement Conference (IMC)*, Amsterdam, Netherlands, October 2019.
11. **[IMC '19]** Peng Peng, Limin Yang, Linhai Song, and **Gang Wang**. "Opening the Blackbox of VirusTotal: Analyzing Online Phishing Scan Engines." In Proceedings of *The ACM SIGCOMM Internet Measurement Conference (IMC)*, Amsterdam, Netherlands, October 2019 (short paper).
12. **[AsiaCCS '19]** Peng Peng, Chao Xu, Luke Quinn, Hang Hu, Bimal Viswanath, and **Gang Wang**. "What Happens After You Leak Your Password: Understanding Credential Sharing on Phishing Sites." In Proceedings of *The 14th ACM Asia Conference on Information, Computer and Communications Security (AsiaCCS)*, Auckland, New Zeland, July 2019.
13. **[USENIX Security '19]** Ying Dong, Wenbo Guo, Yueqi Chen, Xinyu Xing, Yuqing Zhang, and **Gang Wang**. "Towards the Detection of Inconsistencies in Public Security Vulnerability Reports." In Proceedings of *The 28th USENIX Security Symposium (USENIX Security)*, Santa Clara, CA, August 2019.
14. **[IEEE SP '19]** Hang Hu, Peng Peng, and **Gang Wang**. "Characterizing Pixel Tracking through the Lens of Disposable Email Services." In Proceedings of *The 40th IEEE Symposium on Security and Privacy (IEEE SP)*, San Francisco, CA, May 2019.
15. **[IMWUT/UbiComp '19]** Huandong Wang, Yong Li, Sihan Zeng, **Gang Wang**, Pengyu Zhang, Pan Hui, and Depeng Jin. "Modeling Spatio-Temporal App Usage for a Large User Population." In Proceedings of *The ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, March 2019.
16. **[AAAI '19]** Steve T.K. Jan, Joseph Messou, Yen-Chen Lin, Jia-Bin Huang, and **Gang Wang**. "Connecting the Digital and Physical World: Improving the Robustness of Adversarial Attacks." In Proceedings of *The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, Honolulu, HI, January 2019 (**Spotlight**).

17. **[HICSS '19]** Shiliang Tang, Ziming Wu, Xinyi Zhang, **Gang Wang**, Xiaojuan Ma, Haitao Zheng, and Ben Y. Zhao. "Towards Understanding the Adoption and Social Experience of Digital Wallet Systems." In Proceedings of *Hawaii International Conference on System Sciences (HICSS)*, Maui HI, January 2019.
18. **[IMC '18]** Ke Tian, Steve T.K. Jan, Hang Hu, Danfeng Yao, and **Gang Wang**. "Needle in a Haystack: Tracking Down Elite Phishing Domains in the Wild." In Proceedings of *ACM Internet Measurement Conference (IMC)*, Boston, MA, October 2018.
19. **[CCS '18]** Wenbo Guo, Dongliang Mu, Jun Xu, Purui Su, **Gang Wang**, and Xinyu Xing. "LEMNA: Explaining Deep Learning based Security Applications." In Proceedings of *The 25th ACM Conference on Computer and Communications Security (CCS)*, Toronto, Canada, October 2018 (**Outstanding Paper Award**).
20. **[SecDev '18]** Hang Hu, Peng Peng, and **Gang Wang**. "Towards Understanding the Adoption of Anti-Spoofing Protocols in Email Systems." In Proceedings of *The IEEE Cybersecurity Development Conference (SecDev)*, Cambridge, MA, October 2018.
21. **[IMWUT/UbiComp '18]** Zhen Tu, Runtong Li, Yong Li, **Gang Wang**, Di Wu, Pan Hui, Li Su, and Depeng Jin. "Your Apps Give You Away: Distinguishing Mobile Users by Their App Usage Fingerprints." In Proceedings of *The ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT/UbiComp)*, September 2018 (**IMWUT Distinguished Paper Award**).
22. **[USENIX Security '18]** Hang Hu, and **Gang Wang**. "End-to-End Measurements of Email Spoofing Attacks." In Proceedings of *The 27th USENIX Security Symposium (USENIX Security)*, Baltimore, MD, August 2018.
23. **[USENIX Security '18]** Dongliang Mu, Alejandro Cuevas, Limin Yang, Hang Hu, Bing Mao, Xinyu Xing, and **Gang Wang**. "Understanding the Reproducibility of Crowd-reported Security Vulnerabilities." In Proceedings of *The 27th USENIX Security Symposium (USENIX Security)*, Baltimore, MD, August 2018.
24. **[USENIX Security '18]** Kexiong (Curtis) Zeng, Shinan Liu, Yuanchao Shu, Dong Wang, Haoyu Li, Yanzhi Dou, **Gang Wang**, and Yaling Yang. "All Your GPS Are Belong to Us: Towards Stealthy Manipulation of Road Navigation Systems." In Proceedings of *The 27th USENIX Security Symposium (USENIX Security)*, Baltimore, MD, August 2018.
25. **[AsiaCCS '18]** Xiangwen Wang, Peng Peng, Chun Wang, and **Gang Wang**. "You Are Your Photographs: Detecting Multiple Identities of Vendors in the Darknet Marketplaces." In Proceedings of *The ACM Asia Conference on Computer and Communications Security (AsiaCCS)*, Songdo, Incheon, Korea, June 2018.
26. **[SDM '18]** Huandong Wang, Yong Li, **Gang Wang**, and Depeng Jin. "You Are How You Move: Linking Multiple User Identities from Massive Mobility Traces." In Proceedings of *The SIAM International Conference on Data Mining (SDM)*, San Diego, CA, May 2018.
27. **[CODASPY '18]** Chun Wang, Steve T.K. Jan, Hang Hu, Douglas Bossart, and **Gang Wang**. "The Next Domino to Fall: Empirical Analysis of User Passwords across Online Services." In Proceedings of *The ACM Conference on Data and Applications Security and Privacy (CODASPY)*, Tempe, AZ, March 2018 (short paper).
28. **[NDSS '18]** Huandong Wang, Chen Gao, Yong Li, **Gang Wang**, Depeng Jin, and Jingbo Sun. "De-anonymization of Mobility Trajectories: Dissecting the Gaps between Theory and Practice." In Proceedings of *The 25th Annual Network & Distributed System Security Symposium (NDSS)*, San Diego, CA, February 2018.
29. **[GROUP '18]** Steve T.K. Jan, Chun Wang, Qing Zhang, and **Gang Wang**. "Pay-per-Question: Towards Targeted Q&A with Payments." In Proceedings of *The ACM International Conference on Supporting Group Work (GROUP)*, Sanibel Island, FL, January 2018.
30. **[CIKM '17]** Rupinder Paul Khandpur, Taoran Ji, Steve T.K. Jan, **Gang Wang**, Chang-Tien Lu, and Naren Ramakrishnan. "Crowdsourcing Cybersecurity: Cyber Attack Detection using Social Media." In Proceedings of *The 26th ACM International Conference on Information and Knowledge Management (CIKM)*, Singapore, November 2017.
31. **[CIKM '17]** Huan Yan, Tzu-Heng Lin, **Gang Wang**, Yong Li, Haitao Zheng, Depeng Jin, and Ben Y. Zhao. "On Migratory Behavior in Video Consumption." In Proceedings of *The 26th ACM International Conference on Information and Knowledge Management (CIKM)*, Singapore, November 2017.
32. **[USENIX Security '17]** Fang Liu, Chun Wang, Andres Pico, Danfeng Yao, and **Gang Wang**. "Measuring the Insecurity of Mobile Deep Links of Android." In Proceedings of *The 26th USENIX Security Symposium (USENIX Security)*, Vancouver, Canada, August 2017.

33. **[ICWSM '17]** Xinyi Zhang, Shiliang Tang, Yun Zhao, **Gang Wang**, Haitao Zheng, and Ben Y. Zhao. "Cold Hard E-Cash: Friends and Vendors in the Venmo Digital Payments System." In Proceedings of *International AAAI Conference on Web and Social Media (ICWSM)*, Montreal, Canada, May 2017.
34. **[ICWSM '17]** Huan Yan, Tzu-Heng Lin, **Gang Wang**, Yong Li, Haitao Zheng, Depeng Jin, and Ben Y. Zhao. "A First Look at User Switching Behaviors Over Multiple Video Content Providers." In Proceedings of *International AAAI Conference on Web and Social Media (ICWSM)*, Montreal, Canada, May 2017 (short paper).
35. **[AsiaCCS '17]** Amiangshu Bosu, Fang Liu, Danfeng Yao, and **Gang Wang**. "Collusive Data Leak and More: Large-scale Threat Analysis of Inter-app Communications." In Proceedings of *ACM Asia Conference on Computer and Communications Security (AsiaCCS)*, Abu Dhabi, UAE, April 2017.
36. **[IMC '16]** Bolun Wang, Xinyi Zhang, **Gang Wang**, Haitao Zheng, and Ben Y. Zhao. "Anatomy of a Personalized Livestreaming System." In Proceedings of *The 16th ACM SIGCOMM Internet Measurement Conference (IMC)*, Santa Monica, CA, November 2016.
37. **[MobiSys '16]** **Gang Wang**, Bolun Wang, Tianyi Wang, Ana Nika, Haitao Zheng, and Ben Y. Zhao. "Defending Against Sybil Devices in Crowdsourced Mapping Services." In Proceedings of *The 14th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys)*, Singapore, June 2016.
38. **[ICWSM '16]** **Gang Wang**, Sarita Schoenebeck, Haitao Zheng, and Ben Y. Zhao. "Will Check-in for Badges: Understanding Bias and Misbehavior on Location-based Social Networks." In Proceedings of *The 10th International AAAI Conference on Web and Social Media (ICWSM)*, Cologne, Germany, May 2016.
39. **[CHI '16]** **Gang Wang**, Xinyi Zhang, Shiliang Tang, Haitao Zheng, and Ben Y. Zhao. "Unsupervised Clickstream Clustering for User Behavior Analysis." In Proceedings of *SIGCHI Conference on Human Factors in Computing Systems (CHI)*, San Jose, CA, May 2016.
40. **[CSCW '15]** **Gang Wang**, Tianyi Wang, Bolun Wang, Divya Sambasivan, Zengbin Zhang, Haitao Zheng, and Ben Y. Zhao. "Crowds on Wall Street: Extracting Value from Collaborative Investing Platforms." In Proceedings of *The 18th ACM conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, Vancouver, BC, Canada, March 2015.
41. **[IMC '14]** **Gang Wang**, Bolun Wang, Tianyi Wang, Ana Nika, Haitao Zheng, and Ben Y. Zhao. "Whispers in the Dark: Analysis of an Anonymous Social Network." In Proceedings of *The 14th Internet Measurement Conference (IMC)*, Vancouver, BC, Canada, November 2014.
42. **[USENIX Security '14]** **Gang Wang**, Tianyi Wang, Haitao Zheng, and Ben Y. Zhao. "Man vs. Machine: Practical Adversarial Detection of Malicious Crowdsourcing Workers." In Proceedings of *The 23rd USENIX Security Symposium (USENIX Security)*, San Diego, CA, August 2014.
43. **[IMC '13]** Gianluca Stringhini, **Gang Wang**, Manuel Egele, Christopher Kruegel, Giovanni Vigna, Haitao Zheng, and Ben Y. Zhao. "Follow the Green: Growth and Dynamics in Twitter Follower Markets." In Proceedings of *The 13th Internet Measurement Conference (IMC)*, Barcelona, Spain, October 2013.
44. **[USENIX Security '13]** **Gang Wang**, Tristan Konolige, Christo Wilson, Xiao Wang, Haitao Zheng, and Ben Y. Zhao. "You are How You Click: Clickstream Analysis for Sybil Detection." In Proceedings of *The 22nd USENIX Security Symposium (USENIX Security)*, Washington, DC, August 2013.
45. **[DSN '13]** **Gang Wang**, Jack Stokes, Cormac Herley, and David Felstead. "Detecting Malicious Landing Pages in Malware Distribution Networks." In Proceedings of *The 43rd Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)*, Budapest, Hungary, June 2013.
46. **[SIGMETRICS '13]** Xia Zhou, Zengbin Zhang, **Gang Wang**, Xiaoxiao Yu, Ben Y. Zhao, and Haitao Zheng. "Practical Conflict Graphs for Dynamic Spectrum Distribution." In Proceedings of *ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS)*, Pittsburgh, PA, June 2013 (**Best Practical Paper Award**).
47. **[WWW '13]** **Gang Wang**, Konark Gill, Manish Mohanlal, Haitao Zheng, and Ben Y. Zhao. "Wisdom in the Social Crowd: An Analysis of Quora." In Proceedings of *The 22nd International World Wide Web Conference (WWW)*, Rio de Janeiro, Brazil, May 2013.
48. **[NDSS '13]** **Gang Wang**, Manish Mohanlal, Christo Wilson, Xiao Wang, Miriam Metzger, Haitao Zheng, and Ben Y. Zhao. "Social Turing Tests: Crowdsourcing Sybil Detection." In Proceedings of *The 20th Annual Network & Distributed System Security Symposium (NDSS)*, San Diego, CA, February 2013.

49. [WWW '12] **Gang Wang**, Christo Wilson, Xiaohan Zhao, Yibo Zhu, Manish Mohanlal, Haitao Zheng, and Ben Y. Zhao. "Serf and Turf: Crowdturfing for Fun and Profit." In Proceedings of *The 21st International World Wide Web Conference (WWW)*, Lyon, France, April 2012.
50. [MobiCom '11] Zengbin Zhang, Xia Zhou, Weile Zhang, Yuanyang Zhang, **Gang Wang**, Ben Y. Zhao, and Haitao Zheng. "I am the Antenna: Accurate Outdoor AP Location using Smartphones." In Proceedings of *The 17th Annual International Conference on Mobile Computing and Networking (MobiCom)*, Las Vegas, NV, September 2011.

Refereed Journal Articles

51. [TIST '20] Huandong Wang, Yong Li, **Gang Wang**, and Depeng Jin. "Linking Multiple User Identities of Multiple Services from Massive Mobility Traces." In *ACM Transactions on Intelligent Systems and Technology (TIST)*, 2020.
52. [TNSM '20] Huan Yan, Tzu-Heng Lin, **Gang Wang**, Yong Li, Haitao Zheng, Depeng Jin, and Ben Y. Zhao. "On Migratory Behavior in Video Consumption." In *IEEE Transactions on Network and Service Management (TNSM)*, 2020.
53. [TMC '19] Huandong Wang, Chen Gao, Yong Li, **Gang Wang**, Depeng Jin, and Jingbo Sun. "Anonymization and De-anonymization of Mobility Trajectories: Dissecting the Gaps between Theory and Practice." In *IEEE Transactions on Mobile Computing (TMC)*, 2019.
54. [TON '18] **Gang Wang**, Bolun Wang, Tianyi Wang, Ana Nika, Haitao Zheng, and Ben Y. Zhao. "Ghost Riders: Sybil Attacks on Crowdsourced Mobile Mapping Services." In *ACM/IEEE Transactions on Networking (TON)*, 2018.
55. [TSC '18] Steve T.K. Jan, Chun Wang, Qing Zhang, and **Gang Wang**. "Analyzing Payment-driven Targeted Q&A Systems." In *ACM Transactions on Social Computing (TSC)*, 2018.
56. [TWEB '17] **Gang Wang**, Xinyi Zhang, Shiliang Tang, Christo Wilson, Haitao Zheng, and Ben Y. Zhao. "Clickstream User Behavior Models." In *ACM Transactions on the Web (TWEB)*, 2017.
57. [TWEB '17] Tianyi Wang, **Gang Wang**, Bolun Wang, Divya Sambasivan, Zengbin Zhang, Xing Li, Haitao Zheng, and Ben Y. Zhao. "Value and Misinformation in Collaborative Investing Platforms." In *ACM Transactions on the Web (TWEB)*, 2017.
58. [FCS '15] Tianyi Wang, Yang Chen, Yi Wang, Bolun Wang, **Gang Wang**, Xing Li, Haitao Zheng, and Ben Y. Zhao. "The Power of Comments: Fostering Social Interactions in Microblog Networks." In *Springer Frontiers of Computer Science (FCS)*, 2015.
59. [TON '14] Xia Zhou, Zengbin Zhang, **Gang Wang**, Xiaoxiao Yu, Ben Y. Zhao, and Haitao Zheng. "Practical Conflict Graphs in the Wild." In *ACM Transactions on Networking (TON)*, 2014.

Refereed Workshop Proceedings

60. [SafeThings '20] Hang Hu, Limin Yang, Shihan Lin, and **Gang Wang**. "A Case Study of the Security Vetting Process of Smart-home Assistant Applications." In Proceedings of *IEEE Workshop on the Internet of Safe Things (SafeThings)*, in conjunction with IEEE Symposium on Security and Privacy (SP), San Francisco, CA, USA, May 2020.
61. [SafeConfig '17] Alexander Kedrowitsch, Danfeng Yao, **Gang Wang**, and Kirk Cameron. "A First Look: Using Linux Containers for Deceptive Honey Pots." In Proceedings of *Applying the Scientific Method to Active Cyber Defense Research (SafeConfig)*, in conjunction with the ACM Conference on Computer and Communications Security (CCS), Dallas, USA, October 2017.
62. [MoST '17] Fang Liu, Haipeng Cai, **Gang Wang**, Danfeng Yao, Karim O. Elish, and Barbara G. Ryder. "MR-Droid: A Scalable and Prioritized Analysis of Inter-App Communication Risks." In Proceedings of *Mobile Security Technologies (MoST)*, in conjunction with IEEE Symposium on Security and Privacy (SP), San Jose, CA, May 2017.
63. [HotNets '13] Zengbin Zhang, Lin Zhou, Xiaohan Zhao, **Gang Wang**, Yu Su, Miriam Metzger, Haitao Zheng, and Ben Y. Zhao. "On the Validity of Geosocial Mobility Traces." In Proceedings of *ACM Workshop on Hot Topics in Networks (HotNets)*, College Park, MD, November 2013.
64. [HotMobile '11] Christo Wilson, Troy Steinbauer, **Gang Wang**, Alessandra Sala, Haitao Zheng, and Ben Y. Zhao. "Privacy, Availability and Economics in the Polaris Mobile Social Network." In Proceedings of *The 12th ACM Workshop on Mobile Computing Systems and Applications (HotMobile)*, Phoenix, AZ, March 2011.
65. [P2PNet '09] **Gang Wang**, Shining Wu, Guodong Wang, Beixing Deng, and Xing Li. "Experimental Study on Neighbor Selection Policy for Phoenix Network Coordinate System." In Proceedings of *IEEE International Workshop on Peer-To-Peer*

Networking (P2PNet), St. Petersburg, Russia, 2009.

Refereed Posters and Demos

66. [CCS '20] Shuofei Zhu, Ziyi Zhang, Limin Yang, Linhai Song, and **Gang Wang**. "Demonstration: Benchmarking Label Dynamics of VirusTotal Engines." *ACM Conference on Computer and Communications Security (CCS)*, Virtual Conference, November 2020.
67. [SIGSPATIAL '17] Qihang Gu, Dimitris Sacharidis, Michael Mathioudakis, and **Gang Wang**. "Inferring Venue Visits from GPS Trajectories." In Proceedings of *the 25th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (SIGSPATIAL)*, New York, NY, November 2017.
68. [EuroS&P '17] Amiangshu Bosu, Fang Liu, Danfeng Yao, and **Gang Wang**. "Android Collusive Data Leaks with Flow-sensitive DIALDroid Dataset." IEEE European Symposium on Security and Privacy (EuroS&P), Paris, France, April 2017.
69. [SIGCOMM '13] Tianyi Wang, **Gang Wang**, Xing Li, Haitao Zheng, and Ben Y. Zhao. "Characterizing and Detecting Malicious Crowdsourcing." *ACM Special Interest Group on Data Communication (SIGCOMM)*, Hong Kong, China, August 2013.
70. [DySpan '12] Xia Zhou, Zengbin Zhang, **Gang Wang**, Xiaoxiao Yu, Ben Y. Zhao, and Haitao Zheng. "Measurement-calibrated conflict graphs for dynamic spectrum distribution." *ACM 2012 IEEE International Symposium on Dynamic Spectrum Access Networks (DySpan)*, Bellevue, WA, October 2012.

Patents

71. Bimal Viswanath, Arik Hadass, Sonal Oswal, Jiameng Pu, Tianrui Hu, **Gang Wang**, Steve Jan, Qingying Hao. "A Method to Detect Web Bots with Limited Data Using Neural Networks." Filed by VTIP. IP Disclosure: 02/04/2020. # VTIP 20-061.
72. Yaling Yang, Shinan Liu, **Gang Wang**. "A Low-Cost GPS Spoofing Detector and Spoofer Localizer." Filed by VTIP. IP Disclosure: 03/03/2020. # VTIP 20-070. U.S. Patent Application No. 63/047,085.
73. Yaling Yang, Yuancao Shu, Shinan Liu, **Gang Wang**, Kexiong Zeng. "GPS Spoofing Tool to Road Navigation System." Filed by VTIP. IP Disclosure: 09/12/2018. # VTIP 19-026.
74. **Gang Wang**, Jack Stokes, Cormac Herley, and David Felstead. "Identifying Web Pages In Malware Distribution Networks." Filed by Microsoft Corporation, published on 07/03/2014. Pattern #: US 2014/0189864 A1.

PROFESSIONAL ACTIVITIES

Technical Program Committee

- [CCS] The ACM Conference on Computer and Communications Security: 2021
- [USENIX Security] USENIX Security Symposium: 2018, 2021
- [NDSS] The Network and Distributed System Security Symposium: 2020, 2021
- [MobiSys] ACM International Conference on Mobile Systems, Applications, and Services: 2020, 2021
- [WWW] The Web Conference or TheWebConf ("Security, Privacy, and Trust" Track): 2017, 2019, 2020, 2021
- [DIMVA] Conference on Detection of Intrusions and Malware & Vulnerability Assessment: 2021
- [DLS] Deep Learning and Security Workshop, 2021
- [WiSec] ACM Conference on Security and Privacy in Wireless and Mobile Networks, 2021
- [DSN] IEEE/IFIP International Conference on Dependable Systems and Networks, 2020
- [ACSAC] Annual Computer Security Applications Conference: 2018, 2019, 2020
- [IMC] ACM Internet Measurement Conference: 2019
- [CNS] IEEE Conference on Communications and Network Security: 2019
- [ICWSM] AAAI International Conference on Web and Social Media: 2016, 2017, 2018, 2019
- [eCrime] APWG Annual Symposium on Electronic Crime Research: 2018, 2019, 2020
- [AISec] ACM Workshop on Artificial Intelligence and Security: 2016, 2017, 2018, 2019, 2020
- [MLBA] IJCAI Workshop on Machine Learning for Binary Analysis, 2020
- [WACCO] Workshop on Attackers and Cyber-Crime Operations: 2019, 2020
- [CSCW] ACM Conference on Computer-Supported Cooperative Work and Social Computing: 2018
- [Oakland] IEEE Symposium on Security and Privacy (Student PC): 2016

Journal Reviewer

- [TDSC] IEEE Transactions on Dependable and Secure Computing: 2016, 2017, 2018, 2019
- [TWEB] ACM Transactions on the Web: 2017, 2018
- [TIFS] Transactions on Information Forensics & Security: 2018
- [SP] IEEE Security & Privacy: 2018, 2019
- [Frontiers] Frontiers in ICT: 2018
- [TMC] Transactions on Mobile Computing: 2017
- [IEEE Communications] IEEE Communications Magazine: 2017
- [TOIT] ACM Transactions on Internet Technology: 2017
- [LOS ONE] Public Library of Science Open Access Journal: 2017
- [Science Advances] AAAS Open Access Journal: 2017
- [JASIST] Journal of the Association for Information Science and Technology: 2016
- [TIST] ACM Transactions on Intelligent Systems and Technology: 2015
- [TWireless] IEEE Transactions on Wireless Communications: 2015
- [COMNET] Journal on Computer Networks, special issue on P2P Network Measurement: 2011

Journal Guest Editor

- [WWWJ] World Wide Web, Special issue on “Social computing and big data applications”: 2019, 2018, 2017

Conference/Workshop Organization

- [KDD MLHat] The First International Workshop on Deployable Machine Learning for Security Defense: 2020

Other Services

- [NSF] National Science Foundation (NSF) Review Panel (×1): 2019
- [NSF] National Science Foundation (NSF) Review Panel (×3): 2018
- [UNIPD] University of Padova Internal Proposal Review Panel: 2018

GRANTS

SaTC: CORE: Small: Collaborative: Towards Facilitating Kernel Vulnerability Reproduction by Fusing Crowd and Machine Generated Data

- Role: Co-PI; with Xinyu Xing as PI;
- Personal Share: \$175,000 (35%); Total: \$500,000;
- National Science Foundation (NSF);
- 10/01/2020 to 09/30/2023.

CAREER: Machine Learning Assisted Crowdsourcing for Phishing Defense.

- Role: Sole PI;
- Personal Share: \$538,522 (100%); Total: \$538,522;
- National Science Foundation (NSF);
- 06/01/2018 to 05/31/2023.

SaTC: CORE: Small: Securing Web-to-Mobile Interface Through Characterization and Detection of Malicious Deep Links.

- Role: PI; with Danfeng Yao as Co-PI;
- Personal Share: \$400,000 (80%); Total: \$500,000;
- National Science Foundation (NSF);
- 08/01/2017 to 07/31/2021.

Augmenting User-level Defense Against Email Spoofing Attacks.

- Role: Sole PI;
- Personal Share: \$54,735 (100%); Total: \$54,735;
- Google Faculty Award;
- 03/15/2018 to 03/14/2019.

SELECTED PRESS

- [WNIJ NPR] Fallout From The Ransomware Attack At Illinois Valley Community College Is Still Far From Over, 09/2020

- [Vox] Why coronavirus scammers can send fake emails from real domains, 04/2020
- [The Daily Illini] Campus bluetooth attendance tracking raises debate, 01/2020
- [Bloomberg] How Hackers Can Take Over Your Car's GPS. 06/2019
- [The Cyberwire podcast] Driving GPS manipulation. 10/2018
- [The Wall Street Journal] How to Defend Against GPS Spoofing Attacks. 09/2018
- [Forbes] This GPS Spoofing Hack Can Really Mess Up Your Google Maps Trips. 07/2018
- [ACM TechNews] Researchers Mount Successful GPS Spoofing Attack Against Road Navigation Systems. 07/2018
- [The Register] Sad Nav: How a cheap GPS spoofer gizmo can tell drivers to get lost. 07/2018
- [Naked Security] How to spoof someone's GPS navigation to send them the wrong way. 07/2018
- [The Cyberwire podcast] Measuring the spear phishing threat. 07/2018
- [ACM TechNews] Meeting Updated Phishing Attacks Head On. 06/2018
- [Science Daily] Extra vigilance required to combat growing sophistication of phishing attacks. 06/2018
- [Daily Mail] Most popular passwords of 2017 are revealed, and they are incredibly easy to crack. 05/2018
- [Daily Express] Worst passwords revealed: If yours is on this list, you should change it right now. 05/2018
- [Dark Reading] More Than Half of Users Reuse Passwords. 05/2018
- [Yahoo! News] From "Superman" to "Liverpool" Have you got one of 2018's worst passwords. 05/2018
- [Security Magazine] Why People are "Password Walking". 05/2018
- [Mirror] The most common passwords of 2017 – and they're worryingly easy to guess. 05/2018
- [The Sun] Most common passwords revealed: are you guilty of using these hilariously terrible picks. 05/2018
- [New Scientist] Most people re-use old passwords (but you don't, right). 01/2018
- [The New York Times] Alexa, What Happened to My Car. 03/2018
- [CNN] Online holiday shopping scams to watch out for. 11/2017
- [WVTF Radio/NPR] Now You Really Wanna Cry. 05/2017
- [phys.org] Android apps can conspire to mine information from your smartphone. 04/2017
- [The Hill] Thousands of Android apps can "collude" to leak information, research shows. 04/2017
- [The Sun] Your smartphone apps are "secretly colluding" to spy on you in terrifying detail, researchers warn. 04/2017
- [Business Insider] Android apps can breach and share your personal data. 04/2017
- [New Scientist] Android apps share data between them without your permission. 04/2017
- [Independent] Android apps secretly steal users' data by colluding with each other, finds research. 04/2017
- [Daily Mail] Android apps are "secretly colluding" to spy on the private lives of millions of users. 04/2017
- [ACM TechNews] Android apps can conspire to mine information from your smartphone. 04/2017
- [live24News] Google Android Apps Swap Information Without Your Own Permission. 04/2017
- [WVTF Radio/NPR] Internet Scams, Hacks and Malware: A Cat & Mouse Game. 01/2017
- [Fusion] If You Use Waze, Hackers Can Stalk You. 04/2016
- [Channel 10 CBS News] Hackers can stalk you via Waze app. 04/2016
- [Recode/CNBC] Google's Waze says, Nope, hackers can't stalk you on. 04/2016
- [Fusion] Waze comes up with a fix for hack that let researchers track users' movements. 04/2016
- [Tech Times] Vulnerability In Popular Waze Navigation App Could Let Hackers Stalk You In Real Time. 04/2016
- [Tech Crunch] Waze downplays exploit that let researchers track users. 04/2016
- [Fortune] Here's How Google's Waze Can Reportedly Be Used to Stalk Drivers. 04/2016
- [i24 News] U.S. Researchers Expose "Waze" Security Lapse. 04/2016
- [NakedSecurity] How to prevent snoops from stalking you in Waze with "ghost" drivers. 04/2016
- [TechNewsToday] Waze Hackers Have You in Their Sights. 04/2016
- [Infosecurity Magazine] Waze App: The Road to Stalking Drivers. 04/2016
- [Android Headlines] Hackers Can Exploit Waze to Track Drivers in Real Time. 04/2016
- [LA Times] At Whisper's news-gathering operation, data collection comes under siege. 10/2014
- [MIT Technology Review] Fake Followers for Hire, and How to Spot Them. 10/2014
- [Boston Globe] A Dark Force, Unleashed Online. 01/2012
- [The Consumerist] Growing Number of Cyber Shills Invade Online Reviews. 12/2011
- [InfoWorld] Cyber Shill Business Is Booming. 12/2011
- [Slashdot] Million Dollar Crowdturfing Industry Dupes Social Networks. 12/2011
- [MIT Technology Review] Hidden Industry Dupes Social Media Users. 12/2011

TALKS

- The Art of Impersonation: Demystifying Spear Phishing Attacks.
Women in Computer Science (WCS) Explore CS Series, Urbana, IL (October 2020)
- Data-Driven Security Applications: Case Studies and Open Questions.
Department of Electronic Engineering, Tsinghua University, Beijing, China (June 2020)
- Data-Driven Security Applications: Case Studies and Open Questions.
Blue Hexagon, Sunnyvale CA (January 2020)
- Trustworthiness of Information Sources (Panel)
*DARPA Workshop: Multi-Modal Understanding and Summarization (MuMUS) of Critical Events
The University of Pennsylvania, Philadelphia PA (October 2019)*
- Machine Learning Assisted Crowdsourcing for Phishing Defense.
Cybersecurity Technology Transition to Practice Workshop, Chicago, IL (July 2019)
- Human Augmentation for Internet Security.
The Center of Cyber Defense and Network Assurability (CyberDNA), UNC Charlotte, Charlotte NC (May 2019)
- Human Augmentation for Internet Security.
Department of Computer Science, University of Southern California, Los Angeles, CA (March 2019)
- Human Augmentation for Internet Security.
Department of Computer Science, University of Virginia, Charlottesville, VA (March 2019)
- Rethinking Human Factors for Online Security.
Department of Computer Science, Dartmouth College, Hanover, NH (February 2019)
- Human Augmentation for Internet Security.
Department of Computer Science, The University of Chicago, Chicago, IL (February 2018)
- Human Augmentation for Internet Security.
College of Information Sciences and Technology, The Penn State University, University Park, PA (February 2019)
- Human Augmentation for Internet Security.
Department of Computer Science, Purdue University, West Lafayette, IN (January 2019)
- Human Augmentation for Internet Security.
Department of Electrical and Computer Engineering, Purdue University, West Lafayette, IN (January 2019)
- Human Augmentation for Internet Security.
Department of Computer Science, University of Illinois at Urbana-Champaign, Urbana, IL (December 2018)
- Exploitable Human Factors and Their Implications for Online Security.
Department of Computer Science, Dartmouth College, Hanover, NH (May 2018)
- The Next Domino To Fall: Empirical Analysis of User Passwords across Online Services.
ACM Conference on Data and Applications Security and Privacy, Tempe, AZ (March 2018)
- Measuring the Insecurity of Mobile Deep Links of Android.
USENIX Security Symposium (USENIX Security), Vancouver, Canada (August 2017)
- Identity Abuse in Mobile Social Networks and Email Systems.
Institute for Creativity, Arts, and Technology, Virginia Tech, Blacksburg, VA (August 2017)
- Sybil Devices in Crowdsourced Mapping Services.
Workshop on Data and Algorithmic Transparency, New York City, NY (November 2016)
- Human Factors in the Security of Online and Mobile Systems.
Virginia Tech CS Graduate Seminar, Blacksburg, VA (September 2016)
- “Will Check-in for Badges”: Understanding Bias and Misbehavior on Location-based Social Networks.
International AAAI Conference on Web and Social Media, Cologne, Germany (May 2016)
- Unsupervised Clickstream Clustering for User Behavior Analysis.
SIGCHI Conference on Human Factors in Computing Systems, San Jose, CA (May 2016)
- Human Factors in the Security of Online Systems.
Department of Computer Science, Stony Brook University, Stony Brook, NY (April 2016)
- Human Factors in the Security of Online Systems.

Department of Computer Science, University of Illinois at Urbana-Champaign, Urbana, IL (March 2016)

- Human Factors in the Security of Online Systems.
Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, Urbana, IL (March 2016)
- Human Factors in the Security of Online Systems.
Department of Computer Science, University of Minnesota, Minneapolis, MN (March 2016)
- Human Factors in the Security of Online Systems.
Department of Computer Science, The Ohio State University, Columbus, OH (February 2016)
- Human Factors in the Security of Online Systems.
Department of Computer Science, Virginia Tech, Blacksburg, VA (February 2016)
- Attacks and Defenses in Large Online Communities.
Uber Inc., San Francisco, CA (February 2016)
- Attacks and Defenses in Large Online Communities.
LinkedIn Inc., Mountain View, CA (December 2015)
- Whispers in the Dark: Analysis of an Anonymous Social Network.
The 14th Internet Measurement Conference, Vancouver, BC, Canada (November 2014)
- Man vs. Machine: Practical Adversarial Detection of Malicious Crowdsourcing Workers.
Microsoft Membership PM R&D Team, Redmond, WA (September 2014)
- Man vs. Machine: Practical Adversarial Detection of Malicious Crowdsourcing Workers.
Microsoft Azure Data Science and Security Team, Redmond, WA (August 2014)
- Man vs. Machine: Practical Adversarial Detection of Malicious Crowdsourcing Workers.
The 23rd USENIX Security Symposium, San Diego, CA (August 2014)
- Man vs. Machine: Practical Adversarial Detection of Malicious Crowdsourcing Workers.
UW-MSR Summer Institute, Seattle, WA (July 2014)
- Wisdom in the Social Crowd: An Analysis of Quora.
The 22nd International World Wide Web Conference, Rio de Janeiro, Brazil (May 2013)
- You are How You Click: Clickstream Analysis for Sybil Detection.
The 22nd USENIX Security Symposium, Washington, DC, WA (August 2013)
- You are How You Click: Clickstream Analysis for Sybil Detection.
Security Team of Renren Inc., Beijing, China (May 2013)
- Social Turing Tests: Crowdsourcing Sybil Detection.
The 20th Annual Network & Distributed System Security Symposium, San Diego, CA (February 2013)
- Fighting Fire with Fire: Crowdsourcing Security Threats and Solutions on the Social Web.
AT&T Security Research Center, Middletown, NJ (January 2013)
- Serf and Turf: Crowdturfing for Fun and Profit.
The 21st International World Wide Web Conference, Lyon, France (April 2012)

CODE AND DATA RELEASE

- **[VirusTotal Data]** Dataset of the daily snapshots of VirusTotal labels for 14,000 files over a year, 2020
<https://sfzhu93.github.io/projects/vt/index.html>
- **[VPA Data]** Dataset of sensitive commands for Amazon Alexa and Google Homes, 2020
<https://github.com/faysalhossain2007/Read-Between-the-Lines-An-Empirical-Measurement-of-Sensitive-Applications-of-Voice-Personal-Assista>
- **[PCI-Checker]** A light-weight vulnerability scanner for e-commerce websites, 2019
<https://github.com/sazzad114/pci-checker>
- **[BuggyCart]** A customizable testbed to assess the performance of PCI vulnerability scanners, 2019
<https://github.com/sazzad114/buggycart>
- **[VIEM]** An NLP tool to extract vulnerability information from unstructured vulnerability reports, 2019
https://github.com/pinkymm/inconsistency_detection
- **[AdvPhyML]** The implementation of a method to generate physical domain adversarial examples, 2019

<https://github.com/stevevkjan/Digital2Physical>

- **[LEMNA]** A machine learning explanation system to security applications, 2018
<https://github.com/Henrygwb/Explaining-DL>
- **[SquatPhish]** A collection of toolkits to detect phishing websites that have squatting domains, 2018
<https://github.com/SquatPhish>
- **[MemoryVul Data]** 368 memory corruption vulnerabilities with PoC exploits and docker images, 2018
<https://github.com/sazzad114/pci-checker>
- **[Password Data]** A collection of 107 password datasets (61.5 million passwords), 2018
<https://gangw.cs.illinois.edu/pass.html>
- **[De-anonyLoc]** A toolkit of 7 de-anonymization algorithms for location data. 2018
<https://github.com/whd14/De-anonymization-of-Mobility-Trajectories>
- **[Clickstream Viz]** A ML tool to cluster and visualize clickstreams for user behavior analysis, 2016
<http://cs.ucsb.edu/~xyzhang/clickstream/index.html>

TEACHING

- CS 598: Machine Learning for Sys, Networks, and Security, *UIUC*, Instructor, Fall 2020.
- CS 463: Computer Security II, *UIUC*, Instructor, Spring 2020.
- CS 598: Machine Learning for Sys, Networks, and Security, *UIUC*, Instructor, Fall 2019.
- CS 4264: Principles of Computer Security, *Virginia Tech*, Instructor, Spring 2019.
- CS 4984: Web Applications Security, *Virginia Tech*, Instructor, Fall 2018.
- CS 4264: Principles of Computer Security, *Virginia Tech*, Instructor, Spring 2018.
- CS 6604: Applied Machine Learning in Security, *Virginia Tech*, Instructor, Fall 2017.
- CS 4264: Principles of Computer Security, *Virginia Tech*, Instructor, Fall 2016.
- CS 290F: Smartphone-centric Systems and Applications, *UCSB*, Guest Lecturer, Fall 2016.
- CS 276: Graduate Networking, *UCSB*, Teaching Assistant, Fall 2011.
- CS 176B: Network Computing, *UCSB*, Teaching Assistant, Spring 2011.
- CS 64: Computer Organization, *UCSB*, Teaching Assistant, Winter 2011.
- CS 40: Foundations of Computer Science, *UCSB*, Teaching Assistant, Fall 2010.

INTERNAL SERVICES

- Undergraduate Student Awards Committee, *UIUC*, 2020-2021
- FAA Committee (Grad Admission), *UIUC*, 2020-2021
- Security Analysis Team for the Safer Illinois App, *UIUC*, 2020
- Panelist: Research Experience for Undergraduates (REU) program (“Graduate School”), *UIUC*, 2020
- Graduate Studies Committee, *UIUC*, 2019-2020
- Undergraduate Student Awards Committee, *UIUC*, 2019-2020
- Graduate Admission Committee, *Virginia Tech*, 2018-2019
- PhD Qualifier in Systems, Networking, and Cybersecurity (SNC) Committee, *Virginia Tech*, 2018-2019
- Graduate Admission Committee, *Virginia Tech*, 2017-2018
- PhD Qualifier in Systems, Networking, and Cybersecurity (SNC) Committee, *Virginia Tech*, 2017-2018
- Faculty Judge for VTURCS Research Symposium, *Virginia Tech*, 2017

ADVISING

I am the primary advisor of the following students:

Ph.D. Students

- Margie Ruffin (2020 – Present, Co-advised with Kirill Levchenko)
- Zhi Chen (2020 – Present)
- Jaron Maurice Mink (2019 – Present)
- Qingying Hao (2018 – Present)
- Limin Yang (2018 – Present)
- Steve T.K. Jan (2016 – Present)

- Hang Hu (2016 – 2020) → Google.
Dissertation: “*Characterizing and Detecting Online Deception via Data-Driven Methods*”

Masters Students

- Rishabh Chhabra (2020 – Present)
- Licheng Luo (2020 – Present)
- Tianrui Hu (2018 – 2020) → PhD at Northeastern.
Thesis: “*Detecting Bots using Stream-based System with Data Synthesis*”
- Chao Xu (2018 – 2020) → ByteDance.
Thesis: “*Defending Against GPS Spoofing by Analyzing Visual Cues*”
- Jiamin Wang (2018 – 2020) → TSMC.
Thesis: “*Measuring the Functionality of Amazon Alexa and Google Home Applications*”
- Peng Peng (2017 – 2019) → Palo Alto Networks.
Thesis: “*A Measurement Approach to Understanding the Data Flow of Phishing from Attacker and Defender Perspectives*”
- Xiangwen Wang (2017 – 2019) → Google.
Thesis: “*Empirical Analysis of User Passwords across Online Services*”
- Chun Wang (2016 – 2018) → IBM.
Thesis: “*Photo-based Vendor Re-identification on Darknet Marketplaces using Deep Neural Networks*”

Undergraduate Students

- Saidivyva Ashok (2020 – Present)
- Zhengdai Hu (2020 – Present)
- Nicholas Wang (2020 – Present)
- Olivia Figueira (2020 – Present)
- Shihan Lin (2018 – 2019) → PhD at Duke University
- Shinan Liu (2017 – 2019) → PhD at UChicago
- Luke Quinn (2018 – 2019) → MITRE
- Douglas Bossart (2017 – 2019) → U.S. Army ERDC

High School Students

- Megan McQueen (2015) → Yale Undergraduate
- Emily Pan (2015) → Caltech Undergraduate

I have served on the program of study committee, qual committee, and thesis committee of the following students:

Thesis Committee at UIUC (PhD Students)

- [Current] Natã Barbosa, Joshua Reynolds, Zane Ma, Dominic Seyler
- [Graduated in 2020] Deepak Kumar.

Program of Study Committee at UIUC (PhD Students)

- [2020] Margie Ruffin; Jinning Li; Muhammad Adil Inam; Nishant Kumar; James Hulett; Zhi Chen.
- [2019] Bland, Maxwell; Tzu-Bin Yan; Lecheng Zheng; Akul Goyal; Riccardo Paccagnella; Beitong Tian; Sushant Dinesh.

Qualification Committee at UIUC (PhD Students)

- [2020] Linyi Li (Qual Chair); Kyo Hyun Kim; Richard C Barber; Chaitra Niddodi.

Thesis Committee at Virginia Tech (PhD and MS Students)

- [Current] Xiang Cheng (PhD); Md Salman Ahmed (PhD); Stefan Nagy (PhD).
- [Graduated in 2020] Tianyi Li (PhD); Arnab Kumar Paul (PhD); Sazzadur Rahaman (PhD); Thomas Lux (PhD).
- [Graduated in 2019] Elaheh Raisi (PhD); Divya Ramanujachari (MS); Da Pu (MS); Xinfeng Xu (MS).
- [Graduated in 2018] Kexiong Zeng (PhD); Long Cheng (PhD); Nai-Ching Wang (PhD); Alex Hsu (MS); Zachary Burch (MS); Archi Dasgupta (MS).
- [Graduated in 2017] Wenhai Sun (PhD); Hannah Roth (MS); Alexander Kedrowitsch (MS); Noah Luther (MS).

Other External Thesis Committees (PhD Students)

- [Current] Duc Cuong Nguyen, CISPA Helmholtz Center for Information Security.