



BRIAN JAY TANG

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EDUCATION

PhD Student | *Computer Science and Engineering*

University of Michigan - Ann Arbor

Fall 2021 – Present

GPA: 4.00

Bachelor of Science | *Major: Computer Science*

University of Wisconsin - Madison

Fall 2017 – Winter 2020

GPA: 3.53

RESEARCH INTERESTS

Security and Privacy (S&P): Usable Privacy, Web Privacy, Face Recognition Privacy, Social Privacy, Mobile S&P

Machine Learning (ML): Adversarial ML, Computer Vision, Natural Language Processing, ML Fairness

Human-Computer Interaction (HCI): Usable Privacy, Human-Robot Interaction, Digital Safety

SKILLS

Programming: Python (Expert), C++ (Proficient), JavaScript (Familiar), SQL (Proficient), HTML (Familiar)

Software Development: GitHub, Perforce, Qt, NginX, Flask, Squish, Flutter, Firebase

Machine Learning: TensorFlow, PyTorch, Pandas, NumPy, D3.js

Languages: English (Native), Chinese Mandarin (Spoken-Only), Japanese (Elementary), French (Elementary)

Hobbies & Interests: Reading, Investing, Gaming, Anime, Skateboarding, Meditation

WORK EXPERIENCE

Graduate Research Assistant

University of Michigan

Fall 2021 – Present

- Researching usable ML tools to protect user privacy, analyze online privacy, and regulate data collection/sharing.

Research Intern

University of Wisconsin - Madison

Spring 2021 – Fall 2021

- Researched fairness properties of face recognition and created privacy controller for social robots.

Undergraduate Research Assistant

University of Wisconsin - Madison

Fall 2018 – Spring 2021

- Researched security, privacy, and fairness properties of ML systems (face recognition, image recognition, and NLP).

Software Engineering Intern

Roblox Corporation

Summer 2019

- Created core features for Roblox Studio's script editor in a test-driven development setting.

Software Engineering Intern

Optum, UHG

Summer 2018

- Designed and developed data visualization application aggregating 50+ million records from security databases.

PRESENTATIONS AND TALKS

Confidant: A Privacy Controller for Social Robots[2]

University of Michigan | *ACM/IEEE International Conference on Human-Robot Interaction*

Mar 2022

Face-Off: Adversarial Face Obfuscation[7]

University of Wisconsin - Madison | *VMWare - NSF: Data Privacy and Edge Computing*

Jan 2021

Face-Off: Adversarial Face Obfuscation[7]

The Internet | *Proceedings on Privacy Enhancing Technologies Symposium*

July 2021

RESEARCH PROJECTS

Real-Time Protection of Mobile Device Screen Information from Shoulder Surfing[1] University of Michigan <i>Major Revision: 32nd USENIX Security Symposium 2023</i>	Spring 2022 P.I. Kang G. Shin
Do Opt-Outs Really Opt Me Out[5] University of Michigan <i>Accepted: 29th ACM Conference on Computer and Communications Security 2022</i>	Spring 2022 P.I. Kang G. Shin
Detection of Inconsistencies in Privacy Practices of Browser Extensions[4] University of Michigan <i>Accepted: 44th IEEE Symposium on Security and Privacy 2023</i>	Winter 2021 P.I. Kang G. Shin
Automatic Detection of Cookie Consent Violations[3] University of Michigan <i>Target: The Web Conference 2023 (WWW)</i>	Fall 2021 P.I. Kang G. Shin
Confidant: A Privacy Controller for Social Robots[2] University of Michigan <i>17th ACM/IEEE International Conference on Human-Robot Interaction 2022</i>	Fall 2021 P.I. Bilge Mutlu
Fairness Properties of Face Recognition and Obfuscation Systems[8] University of Wisconsin - Madison <i>Accepted: 32nd USENIX Security Symposium 2023</i>	Summer 2021 P.I. Kassem Fawaz
Face-Off: Adversarial Face Obfuscation[7] University of Wisconsin - Madison <i>21st Symposium of Privacy Enhancing Technologies 2021</i>	Summer 2020 P.I. Kassem Fawaz
Rearchitecting Classification Frameworks For Increased Robustness[6] University of Wisconsin - Madison <i>arXiv Preprint</i>	Spring 2019 P.I. Kassem Fawaz

PERSONAL PROJECTS

Algorithmic Trading Framework https://github.com/ramasrirama99/AlgoTradeFramework	Summer 2019
Transcend UW Website https://www.transcenduw.com/ University of Wisconsin - Madison <i>Transcend UW</i>	Spring 2018

HONORS AND AWARDS

College of Engineering Fellowship University of Michigan 1st year PhD fellowship	Fall 2021
Qualcomm Innovation Fellowship (Selected Abstract) Selected abstract on autonomous vehicle domain adaptation	Spring 2021
CVS Health Foundation Program Scholarship for outstanding children of CVS employees	Fall 2017

SERVICE

NeurIPS External/Sub Reviewer – aided PC member with a paper review	Summer 2022
PoPETS External/Sub Reviewer – aided PC member with a paper review	Spring 2021
USENIX Security External/Sub Reviewer – aided PC member with a paper review	Spring 2020

REFERENCES

Kang G. Shin Professor EECS Department University of Michigan - Ann Arbor	kgshin@umich.edu (734) 763-0391
Kassem Fawaz Assistant Professor ECE Department University of Wisconsin - Madison	kfawaz@wisc.edu (608) 890-0529
Somesh Jha Professor CS Department University of Wisconsin - Madison	jha@cs.wisc.edu (608)-262-9519
Bilge Mutlu Professor CS Department University of Wisconsin - Madison	bilge@cs.wisc.edu (608) 262-6635

- [1] **Brian Tang** and Kang G. Shin. “Real-Time Protection of Mobile Device Screen Information from Shoulder Surfing”. In: *Major Revision: 32nd USENIX Security Symposium*. 2023.
- [2] **Brian Tang**, Dakota Sullivan, Bengisu Cagiltay, Varun Chandrasekaran, Kassem Fawaz, and Bilge Mutlu. “Confidant: A Privacy Controller for Social Robots”. In: *17th ACM/IEEE International Conference on Human-Robot Interaction*. 2022. URL: <https://arxiv.org/abs/2201.02712>.
- [3] Duc Bui, **Brian Tang**, and Kang G. Shin. “Automatic Detection of Cookie Consent Violations”. In: *Target: The Web Conference (WWW)*. 2023.
- [4] Duc Bui, **Brian Tang**, and Kang G. Shin. “Detection of Inconsistencies in Privacy Practices of Browser Extensions”. In: *44th IEEE Symposium on Security and Privacy*. 2023.
- [5] Duc Bui, **Brian Tang**, and Kang G. Shin. “Do Opt-Outs Really Opt Me Out”. In: *29th ACM Conference on Computer and Communications Security*. 2022.
- [6] Varun Chandrasekaran, **Brian Tang**, Nicolas Papernot, Kassem Fawaz, Somesh Jha, and Xi Wu. “Rearchitecting Classification Frameworks For Increased Robustness”. In: (2020). arXiv: 1905.10900. URL: <https://arxiv.org/abs/1905.10900>.
- [7] Varun Chandrasekaran, Chuhan Gao, **Brian Tang**, Kassem Fawaz, Somesh Jha, and Suman Banerjee. “Face-Off: Adversarial Face Obfuscation”. In: *21st Privacy Enhancing Technologies Symposium*. 2021. URL: <https://arxiv.org/abs/2003.08861>.
- [8] Harrison Rosenberg, **Brian Tang**, Kassem Fawaz, and Somesh Jha. “Fairness Properties of Face Recognition and Obfuscation Systems”. In: *32nd USENIX Security Symposium*. 2023. URL: <https://arxiv.org/abs/2108.02707>.