



BRIAN JAY TANG

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EDUCATION

PhD Student <i>Computer Science and Engineering</i>	Fall 2021 – Present
University of Michigan - Ann Arbor	GPA: 4.00
Bachelor of Science <i>Major: Computer Science</i>	Fall 2017 – Winter 2020
University of Wisconsin - Madison	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

WORK EXPERIENCE

Graduate Research Assistant	Fall 2021 – Present
University of Michigan	
Research Intern	Spring 2021 – Fall 2021
University of Wisconsin - Madison	
Undergraduate Research Assistant	Fall 2018 – Spring 2021
University of Wisconsin - Madison	
Software Engineering Intern	Summer 2019
Roblox Corporation	
Software Engineering Intern	Summer 2018
Optum, UHG	

RESEARCH PROJECTS

Real-Time Protection of Mobile Device Screen Information from Shoulder Surfing [1]	Spring 2022
University of Michigan <i>In Review: 32nd USENIX Security Symposium 2023</i>	
Do Opt-Outs Really Opt Me Out [5]	Spring 2022
University of Michigan <i>In Review: 29th ACM Conference on Computer and Communications Security 2022</i>	
Detection of Inconsistencies in Privacy Practices of Browser Extensions [4]	Winter 2021
University of Michigan <i>Accepted: 43rd IEEE Symposium on Security and Privacy 2022</i>	12.0% AR
Automatic Detection of Cookie Consent Violations [3]	Fall 2021
University of Michigan <i>In Review: 32nd USENIX Security Symposium 2023</i>	
Confidant: A Privacy Controller for Social Robots [2]	Fall 2021
University of Michigan <i>17th ACM/IEEE International Conference on Human-Robot Interaction 2022</i>	24.8% AR
Fairness Properties of Face Recognition and Obfuscation Systems [8]	Summer 2021
University of Wisconsin - Madison <i>In Review: 32nd USENIX Security Symposium 2023</i>	
Face-Off: Adversarial Face Obfuscation [7]	Summer 2020
University of Wisconsin - Madison <i>21st Symposium of Privacy Enhancing Technologies 2021</i>	19.0% AR
Rearchitecting Classification Frameworks For Increased Robustness [6]	Spring 2019
University of Wisconsin - Madison <i>arXiv Preprint</i>	

PERSONAL PROJECTS

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

SERVICE

NeurIPS External/Sub Reviewer	Summer 2022
PoPETS External/Sub Reviewer	Spring 2021
USENIX Security External/Sub Reviewer	Spring 2020

PRESENTATIONS AND TALKS

Confidant: A Privacy Controller for Social Robots[2] University of Michigan <i>ACM/IEEE International Conference on Human-Robot Interaction</i>	Mar 2022
Face-Off: Adversarial Face Obfuscation[7] University of Wisconsin - Madison <i>VMWare - NSF: Data Privacy and Edge Computing</i>	Jan 2021
Face-Off: Adversarial Face Obfuscation[7] The Internet <i>Proceedings on Privacy Enhancing Technologies Symposium</i>	July 2021

HONORS AND AWARDS

WhatsApp Research Awards: Privacy Aware Program Analysis Submitted proposal under review	Summer 2022
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

SKILLS

Languages: English (Native), Chinese Mandarin (Spoken-Only), Japanese (N5), French (A2)
Programming: Python, C++, JavaScript, SQL, HTML
Software Development: GitHub, Perforce, Qt, NginX, Flask, Squish, Flutter, Firebase
Machine Learning: TensorFlow, PyTorch, Pandas, NumPy, D3.js
Hobbies & Interests: Reading, Investing, Gaming, Anime, Skateboarding, Meditation

REFERENCES

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
Kang G. Shin Professor EECS Department University of Michigan - Ann Arbor	kgshin@umich.edu (734) 763-0391

PUBLICATIONS—PREPRINTS—JOURNALS

- [1] **Brian Tang** and Kang G. Shin. “Real-Time Protection of Mobile Device Screen Information from Shoulder Surfing”. In: *In Review: 32nd USENIX Security Symposium 2023*. 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: *In Review: 32nd USENIX Security Symposium 2023*. 2023.
- [4] Duc Bui, **Brian Tang**, and Kang G. Shin. “Detection of Inconsistencies in Privacy Practices of Browser Extensions”. In: *43rd IEEE Symposium on Security and Privacy 2022*. 2022.

- [5] Duc Bui, **Brian Tang**, and Kang G. Shin. "Do Opt-Outs Really Opt Me Out". In: *In Review: 29th ACM Conference on Computer and Communications Security 2022*. 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: (2021). arXiv: 2108.02707. URL: <https://arxiv.org/abs/2108.02707>.