

BRIAN JAY TANG

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[Full CV](#)

Researcher, US Citizen

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<https://github.com/byron123t>

<https://scholar.google.com/citations?user=pgkhBk8AAAAJ&hl=en>

Mission: Seeking a role as a Research Scientist in AI Security, Safety, or Privacy. I wish to ensure that the harms of LLMs are minimized, by ensuring that we explore opt-out methods and unconventional LLM reasoning chains.

EDUCATION

Ph.D. Candidate | *Computer Science and Engineering*

University of Michigan - Ann Arbor

Thesis: Security and Privacy Challenges with Vision-Language Models and Smart Glasses

Fall 2021 – Present

Advised by [Kang G. Shin](#)

Bachelor of Science | *Major: Computer Science*

University of Wisconsin - Madison

Fall 2017 – Winter 2020

Advised by [Kassem Fawaz](#), [Varun Chandrasekaran](#), [Somesh Jha](#)

WORK EXPERIENCE

Graduate Research Assistant

University of Michigan

Fall 2021 – Present

- Creating automated data collection and annotation methods for training vision-language models to achieve above-human performance on in-the-wild text recognition tasks (>10k samples).
- Designed and patented a real-time software privacy screen, Eye-Shield. Reduced attack success rates from 100% to 24.24% for images and from 77.27% to 15.91% for text, protecting against screen snooping on smartphones. [2]
- Deployed web automation crawler for analysis of 47.2k Chrome extensions, 2.9k online trackers, and 1.4k cookie banners, finding many instances of misleading disclosures and non-compliance. [3]
- Built and evaluated an LLM advertising chatbot using GPT-4o and GPT-3.5. Our user study with 179 participants found that ads influenced 13.07% more participants, with 19.05% more having positive reactions to products. Discovered that serving ads decreases LLM performance on math, reasoning, and reading comprehension tasks by 2-3%. [1]
- Server admin, social organizer, equipment curator, and mentor for the [Real-Time Computing Lab](#).

Undergraduate Research Assistant

University of Wisconsin - Madison

Fall 2018 – Spring 2021

- Explored using physical invariants from LiDAR to improve ML classifier robustness against adversarial attacks.
- Developed an anti face recognition system using projected gradient descent and Carlini-Wagner L2 attacks to protect online photo privacy. [4]. Analyzed demographic fairness properties and latent space of anti face recognition systems.

Software Engineering Intern

Roblox Corporation

Summer 2019

- Designed and implemented production features: autocomplete, smart-cursor movement, and autosuggestion for Roblox Studio's script editor using TDD. Integrated 30 JavaScript Squish tests to auto-validate UI behavior and prevent errors.

Software Engineering Intern

Optum, UnitedHealth Group

Summer 2018

- Designed and implemented an attack-surface visualization that aggregated and normalized 50M+ vulnerability and asset records, produced correlated risk scores, and an interactive dashboard. Presented results to Optum's leadership.

SELECTED PUBLICATIONS [[Full List and Papers Here \(URL\)](#)]

- [1] **Brian Tang**, Kaiwen Sun, Noah T. Curran, Florian Schaub, and Kang G. Shin. "Ads that Talk Back: Implications and Perceptions of Injecting Personalized Advertising into LLM Chatbots". In: *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (UbiComp/IMWUT)*. Acc Rate: 20%. 2025.
- [2] **Brian Tang** and Kang G. Shin. "Eye-Shield: Real-Time Protection of Mobile Device Screen Information from Shoulder Surfing". In: *32nd USENIX Security Symposium*. Acc Rate: 17%. 2023.
- [3] 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*. Acc Rate: 13%. 2023.
- [4] Varun Chandrasekaran, Chuhan Gao, **Brian Tang**, Kassem Fawaz, Somesh Jha, and Suman Banerjee. "Face-Off: Adversarial Face Obfuscation". In: *21st Privacy Enhancing Technologies Symposium*. Acc Rate: 22%. 2021.

PATENTS

Real-Time Protection For Mobile Devices From Shoulder Surfing [2]

U.S. Pat. App. No. 63/468,650-Conf. #8672

Spring 2023

Filed

SELECTED GRANTS

An Efficient Real-Time Knowledge Base for Smart Glasses and Smartphones

Samsung (START); Converted to joint proposal w/ [Ke Sun](#), [Anhong Guo](#), [Kang G. Shin](#)

Ideated Project with [Liangkai Liu](#). Wrote 1/2 of the Proposal.

Spring 2025

Granted, \$200k, 3-Pages

I-SEE: Intelligent Vehicular Perception and Control

General Motors R&D

Ideated Project with Postdoc and 2 Ph.D. Students. Wrote 1/2 of the Proposal.

Spring 2025

Granted, \$145k, 3-Pages

Evaluating Privacy and Surveillance Risks of Large Language Models

National Artificial Intelligence Research Resource Pilot (NAIRR, \$10k)

Outlined and Scoped Projects. Wrote Full Proposal.

Winter 2025

Granted, \$10k, 2-Pages

Securing Cyber-Physical System Communication and Control

Defense University Research Instrumentation Program (DURIP).

Initiated and Organized Proposal Structure and 25 Equipment Orders. Wrote 1/3 of the Proposal.

Spring 2023

Granted, \$300k, 19-Pages

SERVICE

External/Sub Reviewer

USENIX Security 2021, PoPETS 2022, NeurIPS 2023, CHI 2024-2025

Spring 2020 – Fall 2025

7 Papers

Poster PC Committee Member

IEEE S&P 2024-2025

Spring 2024 – Spring 2025

5 Posters

Co-Chair/Organizer

Prof. Kang G. Shin's Retirement Symposium

Distinguished Speakers: ([Atul Prakash](#), [Mingyan Liu](#), [Farnam Jahanian](#))

Fall 2025

87 Attendees

TEACHING EXPERIENCE

Defending Against Deepfakes and Disinformation (Guest Lecturer)

University of Michigan Law School

Taught 30 Law Students About ML, GANs, Deepfakes, Stable Diffusion (1.5 Hours)

Fall 2024

[Link to Slides](#)

RESEARCH INTERESTS

Artificial Intelligence: Adversarial ML, Computer Vision, NLP, DNNs, CNNs, (M)LLMs, Agents, VLMs, RAG

Security and Privacy: Usable Privacy, Online Privacy, Face Recognition, Social Privacy, Mobile Privacy, Surveillance

Human-Computer Interaction: User Studies, Social Robotics, Mobile Computing, Real-Time & Cyber-Physical Systems

SKILLS

Programming: Python, JavaScript, HTML, SQL, GLSL, C++ , Kotlin, ~~TeX~~ LaTeX, Linux, Bash

Software Development: GitHub, Perforce, Qt, NginX, Flask, Squish, AWS, Redis, PostgreSQL, OpenGL, d3.js, Electron

Machine Learning: TensorFlow, PyTorch, Keras, Pandas, NumPy, HuggingFace, Transformers, YOLO, Llama, PEFT

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

Flight Experience: Cessna 172 – 2hrs | Cessna 152 – 2hrs

Hobbies & Interests: Reading, Hiking, Meditation, Camping, Music Production, Videogames, Tabletop RPGs

Clearance Eligibility: Have had prior experience in successfully completing a background investigation, polygraph, and suitability evaluation. An employment offer was extended, but I pursued other opportunities instead.