## Jihye Choi ➡ jihye@cs.wisc.edu ♠ https://jihyechoi77.github.io

Interests	<ul> <li>Trustworthy machine learning ecosystem in the wild:</li> <li>Reliable LLM-powered agents with Retrieval Augmented Generation that adapt to evolving knowledge and user needs, with a focus on healthcare applications.</li> <li>Interpretable and robust decision-making with Foundation Models under distribution shifts.</li> <li>Security and privacy in machine learning, including jailbreaking LLMs, privacy-preserving feder ated learning, membership inference exploiting memorization, and adversarial robustness.</li> </ul>	
Education	UNIVERSITY OF WISCONSIN-MADISON, Madison, WI2019 - 2025 (expected)Ph.D., Computer Sciences (Advisor: Prof. Somesh Jha)2019 - 2025 (expected)	
	<b>CARNEGIE MELLON UNIVERSITY</b> , Pittsburgh, PA2016 - 2018M.S., Electrical and Computer Engineering2016	
	YONSEI UNIVERSITY, Seoul, Korea2013 - 2016B.S., Electrical and Computer Engineering (Early graduation with Highest Honors)	
PUBLICATIONS	(* denotes equal contribution)	
	Multi-user Personalization with Collaborative LLM-powered Agents Christine P Lee <sup>*</sup> , <u>Jihye Choi<sup>*</sup></u> , Bilge Mutlu Under Submission to CHI 2025	
	SLVR: Securely Leveraging Client Validation for Robust Federated Learning Jihye Choi, Rahul Rachuri, Ke Wang, Somesh Jha, Yizhen Wang Under Submission to IEEE S&P 2025	
	Adaptive Concept Bottleneck for Foundation Models Under Distribution Shifts Jihye Choi, Jayaram Raghuram, Yixuan Li, Somesh Jha Under Submission to ICLR 2025, ICML 2024 Workshop on Foundation Models in the Wild	
	MALADE: Orchestration of LLM-powered Agents with Retrieval Augmented Generation for Phar- macovigilance Jihye Choi <sup>*</sup> , Nils Palumbo <sup>*</sup> , Prasad Chalasani, Matthew M. Engelhard, Somesh Jha, Anivarya Ku- mar, David Page MLHC 2024	
	PRP: Propagating Universal Perturbations to Attack Large Language Model Guard-Rails Ashish Hooda <sup>*</sup> , Neal Mangaokar <sup>*</sup> , <u>Jihye Choi</u> , Shreyas Chandrashekaran, Kassem Fawaz, Somesh Jha, Atul Prakash ACL 2024 (Main)	
	Identifying and Mitigating the Security Risks of Generative AI Clark Barrett, Brad Boyd, Ellie Burzstein, Nicholas Carlini, Brad Chen, <u>Jihye Choi</u> , , Dawn Song, Ankur Taly, Diyi Yang Foundations and Trends in Privacy and Security, Vol. 6: No. 1, pp 1-52	

	Why Train More? Effective and Efficient Membership Inference via Memory Jihye Choi, Varun Chandrasekaran, Shruti Tople, Somesh Jha Preprint, Under Submission to CVPR 2025	prization	
	Concept-based Explanations for Out-Of-Distribution Detectors Jihye Choi, Jayaram Raghuram, Ryan Feng, Jiefeng Chen, Somesh Jha, Atul Prakash ICML 2023		
	Stratified Adversarial Robustness with Rejection Jiefeng Chen <sup>*</sup> , Jayaram Raghuram <sup>*</sup> , <u>Jihye Choi</u> , Xi Wu, Yingyu Liang, S (* equal contribution) ICML 2023	omesh Jha	
	Rethink Diversity in Deep Learning Testing Zi Wang, <u>Jihye Choi</u> , Ke Wang, Somesh Jha Preprint		
	Revisiting Adversarial Robustness of Classifiers With a Reject Option Jiefeng Chen <sup>*</sup> , Jayaram Raghuram <sup>*</sup> , <u>Jihye Choi</u> , Xi Wu, Yingyu Liang, S AAAI 2022 Workshop ( <b>Oral Presentation and Best Paper Award</b> )	omesh Jha	
	Stochastic Doubly Robust Gradient Kanghoon Lee <sup>*</sup> , <u>Jihye Choi</u> <sup>*</sup> , Moonsoo Cha, Jung-Kwon Lee and Tae Yoo arXiv 2018	on Kim	
	Data-driven Approach to Aesthetic Enhancement Jihye Choi, Sungjoon Koh, Jongwoo Kwack, Yonghun Kwon, Hyunjung S SPIE Electronic Imaging 2016	him	
Work	UNIVERSITY OF WISCONSIN-MADISON	Madison, WI	
Experience	Research Assistant with Prof. Somesh Jha	Since Jun 2020	
	VISA RESEARCH, IDENTITY AND AI SECURITY PhD Intern with Dr. Yizhen Wang, Dr. Ke Wang, Dr. Rahul Rachuri	Palo Alto, CA Summer 2023, 2022	
	Cylab, Carnegie Mellon University	Pittsburgh, PA	
	Research Assistant with Prof. Lujo Bauer	May 2017 - Mar 2019	
	T-BRAIN, SK TELECOM	Seoul, Korea	
	Research Intern with Dr. Kanghoon Lee	Apr 2018 - Sep 2018	
	Vision & Learning Lab., Yonsei University	Seoul, Korea	
	Undergraduate Research Assistant with Prof. Hyunjung Shim	Mar 2015 - Aug 2016	
SERVICE	<ul> <li>Program Committee of Deep Learning Security and Privacy Workshop with IEEE S&amp;P 2025</li> <li>Reviewer for ICML 2024-2025, NeurIPS 2022-2024, SaTML 2024 (external), AISTATS 2025 CVPR 2025</li> </ul>		

- Student organizer of GenAI Risk Workshop 2023