## Shawn Im

Graduate Stude University of W	nt Emai isconsin-Madison	l: shawnim@cs.wisc.edu		
Interests	AI Safety, Learning theory, Interpretability			
Education	University of Wisconsin-Madison			
	Doctor of Philosophy Computer Science	2023 - Present		
	Massachusetts Institute of Technology			
	B.Sc in Mathematics, Computer Science	2019 - 2023		
Research Experience	<b>University of Wisconsin-Madison</b> Advisor: Sharon Li	2023 - Present		
	• Developed a theoretical framework to understand the generalization of preference learning and extending the framework to model the impact of noisy labels			
	MIT CSAIL Advisors: Yilun Zhou, Jacob Andreas	2022-2023		
	• Developed an evaluation method for saliency maps for image classification based on the saliency map's ability to improve user performance on a task representing a practical use case			
	MIT Mathematics	2022-2023		
	<ul><li>Advisors: Sungwoo Jeong, Alan Edelman</li><li>Studied the spectral properties of Neural Tangent Matrix Theory in a feature learning regime</li></ul>	ed the spectral properties of Neural Tangent Kernels using Random		
	Julia Lab	2020-2021		
	Advisors: Chris Rackauckas, Alan Edelman			
	• Developed models for chemical reactions for batt using surrogate models and Neural ODEs	teries and for pollutants		
	Media Lab	2019-2020		
	<ul> <li>Advisors: Takatoshi Yoshida, Hiroshi Ishii</li> <li>Developed a model to classify a person's activity through force sensors embedded in the floor</li> </ul>	(e.g. walking, spinning)		
Industry Experience	Amazon Software Engineer Intern	Summer 2021		
Experience	• Developed an end-to-end AWS framework to delete user data upon request integrating SNS, Lambda, EMR, S3, API Gateway			

Publications	<b>Shawn Im</b> , Yixuan Li. On the Generalization of Preference Learning with DPO. Preprint, 2024.	
	<b>Shawn Im</b> , Yixuan Li. Understanding the Learning Dynamics of with Human Feedback. In Proceedings of International Conference of Learning (ICML), 2024.	0
	<b>Shawn Im</b> , Jacob Andreas, Yilun Zhou. Evaluating the Utility of Model Explanations for Model Development. NeurIPS Workshop on Attributing Model Behavior at Scale (ATTRIB), 2023.	
Activities	Wisconsin AI Safety Initiative, Research TeamFall 2024Wisconsin AI Safety Initiative, Safety ScholarsSpring 2024Wisconsin AI Safety Initiative, AI Safety FundamentalsFacilitatorGrader, Theory of Probability (18.675)MIT Math Learning Center Tutor	