Khai Loong Aw

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Website	https://awwkl.github.io/ [2		
Education			
2024 -	Stanford University, Ph.D. Computer Science Starting in Fall 2024.		
2020 - 2024	Singapore Management University , B.Sc. Computer Science GPA: 4.0/4.0.		
Peer-Review	ved Publications		
2024	Instruction-tuning Aligns LLMs to the Human Brain K.L. Aw , S. Montariol*, B. AlKhamissi*, M. Schrimpf**, A. Bosselut** COLM 2024		
2023	Training language models to summarize narratives improves brain alignment K.L. Aw , M. Toneva ICLR 2023		
	Top 25% Notable Paper (Spotlight)		
2022	Detecting False Alarms from Automatic Stati H.J. Kang, K.L. Aw , D. Lo ICSE 2022	c Analysis Tools	
	Distinguished Paper Nominee — top 19 pape	ers, top 3% of submissions	
Research Ex	perience		
2023	EPFL, Research Intern (NeuroAI)		
	• Advisors: Martin Schrimpf, Antoine Bossel		
	 Investigated the similarities between: (1) Ll activity, and (2) LLM and human behavior. So correlates with model size (r = 0.95) and worl Contributed LLaMA and T5 models to the contributed to the contributed. 	howed that brain-LLM alignment strongly ld knowledge ($r = 0.81$). [COLM 2024]	
2022	Max Planck Institute for Software Systems,	Research Intern (NeuroAI)	
	 Advisor: Mariya Toneva Showed that training language models to shuman brain fMRI activity. Designed an interalignment across various narrative elements 	rpretability method to evaluate brain	
2022	Singapore Management University, Research	n Assistant (Computer Vision)	
	 Advisor: Sun Qianru Used Self-Supervised Learning as a pre-tratexisting methods for the computer vision task 	0 1 1	
2021	Software Analytics Research Group, Researc	h Intern (Machine Learning)	
	 Advisor: David Lo Used AI interpretability methods to identif ML models for detecting software bugs. [ICS 		
2017	 National University of Singapore, Research A Advisor: Dan Zhao Designed experiments to synthesize novel 		

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Industry	' E.X1	perience
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2023	GIC Singapore, NLP Project		
	 Built pipeline of text-to-SQL and retrieval-augmented generation LLMs, allowing employees to use English questions to query global stock market databases 		
2022	 GovTech Singapore, AI Engineer Intern (Computer Vision) Improved the processing speed of state-of-the-art algorithms for Multi-Object Trackin i.e., tracking the motion of multiple objects or humans within a video sequence 		
Presentation	us		
2023	Conference Oral, ICLR 2023		
2023	Conference Poster, ICLR 2023		
2023	Talk , ML Tea @ Max Planck Institute for Software Systems		
2022	Workshop Poster , Workshop on Memory in Artificial and Real Intelligence @ NeurIPS 2022		
2022	Poster , Max Planck Institute for Software Systems Institute Retreat		
Awards			
2024	Stanford School of Engineering Fellowship		
2024	IMDA Gold Medal Award - top student in B.Sc. CS graduating cohort		
2022	Best Poster Presentation, MPI-SWS Institute Retreat 2022		
2022	Outstanding Second Year Student Award - top student in Year 2 of CS undergrad		
2021	Outstanding First Year Student Award - top student in Year 1 of CS undergrad		
2020	Global Impact Scholarship - undergrad university's top full-ride scholarship		
Hackathons			
2021	1st place , SMU Legal Innovation and Technology (LIT) Hackathon		
2021	3rd place , SMU Ellipsis Tech Series Hackathon presented by Goldman Sachs		
2021	Dentons Rodyk Access to Justice Award, SMU LIT Hackathon		
2021	People's Choice Award , Asia-Pacific Legal Innovation and Technology Association		
2021	Tech-cess to Justice Award , Asia-Pacific Legal Innovation and Technology Association		
2021	Legal Tech Entrant Award, Asia-Pacific Legal Innovation and Technology Association		
2020	Best College Hack, Hack-a-Solution international hackathon		
Service			
2023 - now	Reviewer		
	NeurIPS 2024		
	Queer in AI Workshop @ NAACL 2024 Workshop on Representational Alignment @ ICLP 2024		
	Workshop on Representational Alignment @ ICLR 2024 Workshop on Unifying Representations in Neural Models @ NeurIPS 2023		
	Workshop on Instruction Tuning and Instruction Following @ NeurIPS 2023		
2021 - 2022	Vice-President, SMU BIA		
2021 2022	Led team of 23 directors to organize Machine Learning workshops & events for a club with 1000+ students; allow non-computing students to gain hands-on ML experience		
2020 - 2022	Organizer, SMU BIA Workshop on ML Deployment Workshop on Deep Learning in NLP Workshop on Interview Preparation for ML and Data Engineers Workshop on Interview Preparation for Business and Data Analysts Other events: Data Science CTF Hackathon, Industry Mentor Sharing Session, Project Polish Program, and projects between SMU BIA and industry partners		

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2017 - 2024 Mentor, SMU "Pay It Forward" Mentorship Program 2024

Mentor, Data Associate Program 2023 - mentored 4 students on their ML project

Mentor, Data Associate Program 2021

Student Assistant, SMU Disability Services - assisted a student with hearing disability **Volunteer**, Overseas Community Service Project *Vikasa* - taught students in Jaipur, India

Volunteer, Meet-the-People Sessions - write letters to help people get financial aid

Volunteer, Willing Hearts - help in soup kitchen

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