Mengyu Zhong, Social Robotics/ Multi-modal Deep Learning

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PROFILE	PhD Student at Uppsala Social Robotics Lab, interested in Social Robotics, Machine Learning, and AI for healthcare.			
EDUCATION				
Feb 2021 — Present	PhD in Computer Science , Uppsala University	Sweden		
	Supervised by Ginervra Castellano			
	Thesis title: Socially assistive robotics: robot-assisted diagnosis of women's depression around childbirth			
Sep 2018 — Dec 2020	MSc in IT and Cognition, University of Copenhagen	Denmark		
	GPA 11.6/12			
Aug 2019 — Dec 2019	Exchange student, University of North Carolina at Chapel Hill America			
Jan 2019 — Jun 2019	Guest Student, IT University of Copenhagen			
	Guest Student, 11 University of Copenhagen GPA 12/12 Denn			
Sep 2013 — Jun 2017	BEng in Mechanical Engineering, South China University of			
ocp 2013	Technology			
EXPERIENCE				
Jul 2020 — Sep 2020	Data Scientist Internship, Architecture Quote	Copenhagen		
	Develop data engineering pipelines and train machine learning models to automate house	price estimation.		
Jun 2019 — Jul 2020	Research Assistant, University of Copenhagen	Copenhagen		
	Independently lead a research project on haptic interaction devices while also providing support for other group projects in in Human-Centric Computation.			
Feb 2018 — Aug 2018	Deep Learning Algorithm Internship, Deep North	China		
	Supervise three interns in the algorithm department, concentrating on data engineering pipelines and documentation, and coordinate with the foreign annotation team. Additionally, test new deep learning models.			
PROJECTS				
May 2021 — Present	Robot-assisted Perinatal Depression Diagnosis [Hum	[Multi-modal ML]		
	Investigate the feasibility and acceptability of robot-assisted diagnosis for perinatal depression by conducting Human-Robot-Interaction studies. Develop multi-modal deep learning models for automatic depression diagnosis.			
Feb 2021 — Present	Mom2b: Mobile Big Data for Perinatal Depression Diagnosis	[Multi-modal ML]		
	Utilize machine learning techniques on longitudinal mobile data to predict the onset of p	erinatal depression.		
Jul 2019 — Jun 2020	Air-table: Haptic Interactive Device	[HCI]		
	Design and prototype a haptic interactive device, integrating both hardware and software components, and conduct user studies with the prototype.			
Feb 2019 — Jun 2019	Multi-modal Machine Learning for Music Genre Classification	[Multi-modal ML]		
	Applied Random Forest, SVM, Neural Networks, and deep learning techniques to classify music genres using features from three modalities: audio, images, and lyrics.			
Feb 2019 — Jun 2019	Machine Learning for Authership Attribution	[NLP]		
	Employed both classical machine learning methods and deep learning techniques, including BERT, for the task of authorship attribution.			

HONORS & AWARDS					
Sep 2018 — Jun 2020	Danish Government S	Scholarship		University of Copenhagen	
Oct 2015	Scholarship for Outstanding Students and the "Merit Student"		South China University of Technology Guangzhou South China University of Technology		
May 2015	Third Prize in "Midea Cup" intelligent electrical kitchen utensils design competition				
Oct 2014	Scholarship for Outstanding Students and the "Merit Student"				
SKILLS	Fast Learner		Interdisciplinary resear	rch	
	Problem Solving		Machine Learning		
	Leadership		Data Science		
	Adaptability		Web Development	evelopment	
	Communication		Multimodal Deep Lear	rning	
	Analytical Skills	Analytical Skills Human Robot Interaction			
	Teamwork				
LANGUAGES	Mandarin English	Native speaker Working proficient	Swedish	Beginner	
PUBLICATIONS	K., Papadopoulos, F. (20 smartphone-based digital p Swedish cohort (Mom2B): [2] Zhong, M., van Zoest, V	Bränn, E., Eriksson, A., Zhor 22). Predicting perinatal hea henotyping and machine lea Study protocol. BMJ Open, V., Bilal, A. M., Papadopoulo ultimodal prediction of ante	Ith outcomes using rning in a prospective 12(4). s, F. C., & Castellano,		
		ata in a longitudinal study. I ence on Multimodal Interact		e	
	Psychiatrists' views on robo	, Papadopoulos, F. C., & Ca ot-assisted diagnostics of peri al Conference, ICSR 2021 S oceedings, 464–474.	partum depression. Social		
	(2022). Gender fairness in s	a, T., Zhong, M., Larsson, S., social robotics: Exploring a fi the 2022 17th ACM/IEEE I (HRI '22), 598–607.	uture care of peripartum	n	
	mothers' perspectives on so	, García Velázquez, I., & Casi cially assistive robots in perip le 2023 ACM/IEEE Interna 1, 486–490.	partum depression screening	· ·	
		Castellano, G., & Winkle, K. teractions: Implications for ence, 5.			
	MorpheesPlug: A toolkit for the 2021 CHI Conference	jada, C., Zhong, M., & Ashb or prototyping shape-changi on Human Factors in Comp g Machinery, New York, NY,	ng interfaces. Proceedings o outing Systems (CHI '21).	of	

[8] Savage, V., Tejada, C., Zhong, M., Ramakers, R., Ashbrook, D., & Kim, H.

(2022). AirLogic: Embedding pneumatic computation and I/O in 3D models to fabricate electronics-free interactive objects. Proceedings of the 35th Annual ACM Symposium on User Interface Software and Technology (UIST '22). Association for Computing Machinery, New York, NY, USA, Article 9, 1–12.