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 Swede			
	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 Denma			
	GPA 11.6/12			
Aug 2019 — Dec 2019	xchange student, University of North Carolina at Chapel Hill Amer			
Jan 2019 — Jun 2019	Guest Student, IT University of Copenhagen Denma			
	GPA 12/12			
Sep 2013 — Jun 2017	BEng in Mechanical Engineering, South China University of			
	Technology			
WORK EXPERIENCE				
Jul 2020 — Sep 2020	Data Scientist Internship, Architecture Quote Copenhage			
	Develop data engineering pipelines and train machine learning models to automate house price estimation.			
Jun 2019 — Jul 2020	Research Assistant, University of Copenhagen Copenhage			
	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			
	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 [Human-robot interaction			
	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 M			
	Utilize machine learning techniques on longitudinal mobile data to predict the onset of perinatal depression.			
Jul 2019 — Jun 2020	Air-table: Haptic Interactive Device [HC			
	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 M			
	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 [NL			
	Employed both classical machine learning methods and deep learning techniques, including BERT, for the tas of authorship attribution.			

HONORS & AWARDS					
Sep 2018 — Jun 2020	Danish Government	Danish Government Scholarship Scholarship for Outstanding Students and the "Merit Student" Third Prize in "Midea Cup" intelligent electrical kitchen utensils design competition Scholarship for Outstanding Students and the "Merit Student"			
Oct 2015	Scholarship for Outst				
May 2015					
Oct 2014	Scholarship for Outs				
SKILLS	Fast Learner		Interdisciplinary resea	rch	
	Problem Solving	Problem Solving		Machine Learning	
	Leadership		Data Science		
	Adaptability	•			
	Communication			rning	
	Analytical Skills		Human Robot Interaction		
	Teamwork				
LANGUAGES	Mandarin	Native speaker	Swedish	Beginner	
	English	Highly proficient			
PUBLICATIONS	[1] Bilal, A., Fransson, E., Bränn, E., Eriksson, A., Zhong, M., Gidén, K., Papadopoulos, F. (2022). Predicting perinatal health outcomes using smartphone-based digital phenotyping and machine learning in a prospective Swedish cohort (Mom2B): Study protocol. BMJ Open, 12(4).				
	[2] Zhong, M., van Zoest, V., Bilal, A. M., Papadopoulos, F. C., & Castellano, G. (2022). Unimodal vs. multimodal prediction of antenatal depression from smartphone-based survey data in a longitudinal study. ICMI '22: Proceedings of the 2022 International Conference on Multimodal Interaction, 455–467.				
	[3] Zhong, M., Bilal, A. M., Papadopoulos, F. C., & Castellano, G. (2021). Psychiatrists' views on robot-assisted diagnostics of peripartum depression. Social Robotics: 13th International Conference, ICSR 2021 Singapore, Singapore, November 10–13, 2021 Proceedings, 464–474.				
	[4] Tanqueray, L., Paulsson, T., Zhong, M., Larsson, S., & Castellano, G. (2022). Gender fairness in social robotics: Exploring a future care of peripartum depression. Proceedings of the 2022 17th ACM/IEEE International Conference on Human-Robot Interaction (HRI '22), 598–607.				
	[5] Paulsson, T., Zhong, M., García Velázquez, I., & Castellano, G. (2023). Exploring mothers' perspectives on socially assistive robots in peripartum depression screening. HRI '23: Companion of the 2023 ACM/IEEE International Conference on Human-Robot Interaction, 486–490.				
	[6] Zhong, M., Fraile, M., Castellano, G., & Winkle, K. (2023). A case study in designing trustworthy interactions: Implications for socially assistive robotics. Frontiers in Computer Science, 5.				
	[7] Kim, H., Everitt, A., Tejada, C., Zhong, M., & Ashbrook, D. (2021). MorpheesPlug: A toolkit for prototyping shape-changing interfaces. Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (CHI '21). Association for Computing Machinery, New York, NY, USA, Article 101, 1–13.			of	
	(2022). AirLogic: Embedd fabricate electronics-free in Symposium on User Interf	Chong, M., Ramakers, R., Asing pneumatic computation teractive objects. Proceeding ace Software and Technologyew York, NY, USA, Article 9	and I/O in 3D models to gs of the 35th Annual ACM y (UIST '22). Association fo		