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 Supervised by Ginervra Castellano	Sweden	
	Thesis title: Socially assistive robotics: robot-assisted diagnosis of women's depression a	round childbirth	
Sep 2018 — Dec 2020	MSc in IT and Cognition, University of Copenhagen GPA 11.6/12 Denma		
Aug 2019 — Dec 2019	Exchange student, University of North Carolina at Chapel Hill Ame		
Jan 2019 — Jun 2019	Guest Student, IT University of Copenhagen GPA 12/12 Denm		
Sep 2013 — Jun 2017	BEng in Mechanical Engineering, South China University of 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 [Hu	[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 perinatal depression.		
Jul 2019 — Jun 2020	Air-table: noval interactive device	[HCI]	
	Design and construct a haptic interactive device from the ground up, integrating both hardware and software components, and conduct user studies with the prototype.		
Feb 2019 — Jun 2019	Multi-modality 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, inclu of authorship attribution.	ding BERT, for the task	

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.
- [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.

LANGUAGES	Mandarin English	Native speaker Swedis Work proficient	sh Beginner
HONORS & AWARDS			
Sep 2018 — Jun 2020	Danish Government Scholarship		University of Copenhagen
Oct 2015	Scholarship for Outstanding Students and the "Merit Student"		South China University of Technology
May 2015	Third Prize in "Midea Cup" intelligent electrical kitchen utensils design competition		chen utensils Guangzhou
Oct 2014	Scholarship for Outstanding Students and the "Merit Student"		South China University of Technology
SKILLS	Data Science	Node.	js
	Python	SQL	
	Machine Learning	React	
	Pytorch	C++	
	Linux	ROS	
	GitHub	Docke	r
	JavaScript		