Miaoya Zhong

San Jose, CA| Phone: 857-271-6315 | Email: miaoya@stanford.edu | Website: https://miaoyazhong.github.io

EDUCATION

!"#\$%&'()*\$+,-'.+"/0)Stanford, CA))))))		Expected 06/ 2027)			
Master of Science in Computer Science		Current GPA: 12345126)			
Relevant Courses: Artificial Intelligence: Principles and Techniques,	Deep	Learning,	Design	and Analysis of	
Algorithms, Computer Organization and Systems	_				
7#',#'()*\$+,-'.+"/0)Cambridge, MA))))))))))))))))))))))	05/2022	
Master of Education in Learning Design, Innovation, and Technology))))))))GPA: 1265126	
*\$+,-'.+"/)&\\) 8 +.9&\$.+\$:; #(+.&\$\(0)\)Madison, WI))))		12/2020	
Bachelor of Science in Elementary Education-Early Childhood & ESL				GPA:<2=<5126	

TECHNICAL PROJECTS

>-.-#'9?)@'&A-9"):)Tactile Sensing for OceanOneK Underwater Robot

06/2024 - 10/2024

Advisor: Mark Cutkosky, Stanford Biomimetics & Dexterous Manipulation Lab

- Designed a B+C-':D'#EE:F'#"+\$E).-\$.&' for the OceanOneK robot's hands to enhance tactile sensing.
- Collected and processed experimental data using force-torque sensors and optical interrogators.
- Implemented #)\(\mathbb{G}\)\(\mathbb{H}\)\(\mathbb{G}\)\(\mathbb{H}\)\(\mathbb{G}\)\(\mathbb{H}\)
- Assisted in developing a **I?+.J-':+\$.U+'-()"#9"+II-).-\$.&'** for underwater perception, showcased at the !"#\$\\&'()>\&C\&"+9.)V-\\$"-')M\#G\\$9?.

@'&A-9"):)Student Revision Behavior Analysis)KD'&\$W-)XI#'(0)O&U)4Y)+\$)9H#..N))))))))))))))))))

- Built and evaluated [#+,-)D#/-.)9H#..+\\-'. to predict project preferences, achieving up to 100\% test accuracy on certain datasets, utilizing Python (NumPy, pandas, scikit-learn) for (#"#)U'-U'&9-..+\$E0) U'&C#C+H+."+9)Z&(-H+\$E0)#\$(),+.G#H+\\#"+&\$2
- Published a research-style paper and reproducible <u>code on GitHub</u>, demonstrating strong data analysis and machine learning skills.

WORK EXPERIENCE

• Designed customized AP Computer Science Principles (AP CSP) and Middle School Computer Science curricula using Python, Java, HTML, and CSS, resulting in a significant increase in the AP CSP class average score from <2L45R)"&12435R (2024 California average: 3.08, global average: 2.90).

- Taught '&C&"+9)U'&E'#Z Z+\$E with Scratch, Lego Mindstorms, Lego WeDo 2.0, and Python
- Utilized classroom materials to implement STEM activities and maintained communication with parents

PUBLICATION

Li, H.*, Xing, C.*, Khan, S., \?&\$E0); 2, & Cutkosky, M. R. (2025). Whisker-Inspired Tactile Sensing: A Sim2Real Approach for Precise Underwater Contact Tracking. *IEEE Robotics and Automation Letters(RA-L)*

SKILLS

- @'&E'#Z+\$E])Python, C++, C, Java, JavaScript, Processing, R, HTML/CSS
- B'#Z-I&'J.)^)O&&I.])NumPy, pandas, PyTorch, Onshape CAD, CorelDRAW, Casting, Adobe Photoshop
- M#\$EG#E-.] Mandarin (Native), English (Proficient), Cantonese (Intermediate)