

## EDUCATION

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8/2018 - present	<b>RICE UNIVERSITY</b> Graduate PhD Student in Mechanical Engineering M.S. in Mechanical Engineering	Houston, TX
8/2013 - 6/2018	<b>STANFORD UNIVERSITY</b> B.S. in Mechanical Engineering with Honors Minor in East Asian Studies, Subplan Japanese	Palo Alto, CA

## EXPERIENCE

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8/2018 - present	<b>RESEARCH FELLOW</b> <b>Mechatronics and Haptic Interfaces (MAHI) Lab</b> Building and leading experiments to investigate the psychophysics and mechanical properties of wearable multi-sensory haptic devices	Houston, TX
5/2017 - 6/2018	<b>RESEARCH ASSISTANT</b> <b>Stanford Collaborative Haptics and Robotics In Medicine (CHARM) Lab</b> Designed, executed and led experiments on skin deformation devices	Stanford, CA
8/2016 - 6/2018	<b>KYOTO STUDENT AMBASSADOR</b> <b>Stanford Bing Overseas Studies Program</b> Drove student interest to record numbers by re-imagining the marketing campaign and pioneering measures to include disadvantaged students	Stanford, CA
Summer 2016	<b>SUMMER X HEAD RESEARCHER AND DESIGNER</b> daisy*	Tokyo, Japan
Summer 2013-'15, '18	Researched and designed Summer X VR Brain Feedback System <b>INSTRUCTOR AND CURRICULUM DEVELOPER</b> <b>University of Washington, Robinson Center</b> Designed and taught new robotics curriculum	Seattle, WA

## AWARDS AND PATENTS

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8/2018-present	<b>NSF GRADUATE RESEARCH FELLOW</b> Recognized for scientific promise with 3-year financial support from the National Science Foundation	
5/2018	<b>STANFORD AWARD OF EXCELLENCE</b> Honors commitment to the university through involvement, leadership and extraordinary Stanford spirit	
8/2013-present	<b>GATES MILLENIUM SCHOLAR</b> Chosen as deserving of a 10-year full-ride scholarship by The Bill and Melinda Gates Foundation	
8/2013-6/2017	<b>QUESTBRIDGE COLLEGE MATCH SCHOLAR</b> Chosen as deserving of a 4-year full-ride scholarship by Questbridge Program	
Summer 2016	<b>SUMMER X VR BRAIN FEEDBACK SYSTEM</b> JP Patent 2016-159759	daisy* Japan

## RESEARCH

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### CONFERENCE PROCEEDINGS

1. Z. A. Zook, J. J. Fleck, T. W. Tjandra, and M. K. O'Malley, "Effect of Interference on Multi-Sensory Haptic Perception of Stretch and Squeeze," 2019 IEEE World Haptics Conference, July 9 - 12, Tokyo, Japan
2. J. J. Fleck, Z. A. Zook, T. W. Tjandra, and M. K. O'Malley, "A Cutaneous Haptic Cue Characterization Testbed," 2019 IEEE World Haptics Conference, July 9 - 12, Tokyo, Japan
3. Z. A. Zook, A. M. Okamura, and Y. Kamikawa, "Effects of Latency and Refresh Rate on Force Perception via Sensory Substitution by Force-Controlled Skin Deformation Feedback," 2018 IEEE International Conference on Robotics and Automation (ICRA), May 21 - 25, Brisbane, Australia

### PRESENTATIONS

1. "Effects of Latency and Refresh Rate on Force Perception via Sensory Substitution by Force-Controlled Skin Deformation Feedback," Presentation, ASU Robotics Symposium, Tempe, AZ, January 24 - 25, 2019