MICHELLE A. LEE

EDUCATION

Ph.D. Candidate at Stanford University — Jan 2018- Present
Mechanical Engineering GPA: 3.99/4.0
Masters of Science at Stanford University — 2015-2018
Mechanical Engineering GPA: 3.94/4.0
Bachelors of Science at Stanford University — 2010-2015
Chemical Engineering GPA 3.82/4.0

HONORS

IEEE ICRA 2019 Best Conference Paper Award 2019
IEEE ICRA 2019 Best Paper Award in Cognitive Robotics Finalist 2019
Accel Innovation Scholar, selective entrepreneurship program for PhD candidates, Stanford 2019
Mayfield Fellow Program, selective technology fellowship program, Stanford 2015
Stanford Build Tech Grant, $3000 awarded to selected robotics engineering project, Stanford 2014
Tau Beta Pi, top 12% (junior year) of 2015 engineering class based on GPA, Stanford 2013
Presidential Scholar Semifinalist, USA 2010
Vanderpoel Prize, student with most distinguished record in science, St. Paul's School 2010

PUBLICATIONS

Lee, M. A., Zhu, Y., Zachares, P., Tan, M., Srinivasan, K., Savarese, S., Fei-Fei, L., ... & Bohg, J. (2019). Making sense of vision and touch: Learning multimodal representations for contact-rich tasks. (Under review at IEEE Transactions on Robotics).

Martín-Martín, R., **Lee, M. A.**, Gardner, R., Savarese, S., Bohg, J., & Garg, A. (2019). Variable Impedance Control in End-Effector Space: An Action Space for Reinforcement Learning in Contact-Rich Tasks. In 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS). IEEE.

Lee, M. A.*, Zhu, Y*., Srinivasan, K., Shah, P., Savarese, S., Fei-Fei, L., ... & Bohg, J. (2019). Making sense of vision and touch: Self-supervised learning of multimodal representations for contact-rich tasks. In 2019 IEEE International Conference on Robotics and Automation (ICRA). IEEE.

REVIEWED WORKSHOP PAPERS/EXTENDED ABSTRACTS

Martín-Martín, R., **Lee, M. A.**, Gardner, R., Savarese, S., Bohg, J., & Garg, A. Variable Impedance Control in End-Effector Space: An Action Space for Reinforcement Learning in Contact-Rich Tasks. In 2019 RSS Women in Robotics Workshop.

Lee. M. A., Zhu, Y.,... & Bohg, J. (2019). Variational multimodal representations for contact-rich tasks. In 2019 RSS Workshop on Scalable Learning for Integrated Perception and Planning Workshop.

Lee. M. A.*, Zhu, Y.*,... & Bohg, J. Learning Multi-Modal Representations for Contact-Rich Manipulation Tasks. In 2018 RSS Women in Robotics Workshop.

WORK EXPERIENCE

Stanford AI Lab (Stanford, CA) Aug ’17-Present
Research Assistant
- Combining different sensor modalities, such as vision and touch
- Deep learning and reinforcement learning for perception and controls for robot manipulation

NVIDIA Robotics (Seattle, WA) June ’19 - Sept ’19
Robotics Research Intern
- Reasoning under uncertainty for robotic manipulation

LCY (Huizhou, China & Taipei, Taiwan) June ’16- April’17
Special Projects Engineer
- 6-member special projects team to oversee and design a new automated production line at factory

SpaceX (Hawthorne, CA) Sept ’15- Dec ’15
Vehicle Engineering Intern
- Designed flight parts for second stage rocket from design to manufacturing to stress testing

Sano (San Francisco, CA) June ’14-Sept ’14
Engineering Intern
- Developed the first enclosure prototypes for a next-gen metabolite-sensing wearables product

LEADERSHIP EXPERIENCE

Stanford AI Lab (SAIL) Blog Sept 18- Current
Founding co-editor-in-chief
- Launched blog for the Stanford AI Lab that features SAIL research, written for general audiences
- Edited blog, solicited writing from lab members, created editorial guideline

Stanford AI Lab Robotics Lunch Jan 19- Current
Co-organizer
- Bi-weekly luncheon for researchers to present original research on robotics, manipulation, perception.

Stanford AI Salon Sept 18-Sept 19
Co-organizer
- Organizes bi-weekly salon event on big picture questions in A, inviting speaker, moderating the panel
- Moderated and organized a public AI Salon event on the Future of Work with over 500+ participants

Tau Beta Pi Sept ’14- June ’15
Professional Development Co-Chair
- Organized small intimate dinners for Tau Beta PI members with Silicon Valley founders and VC’s

Wireless Mobile Controlled Electric Vehicle Jan ’14- June ’15
Project Founder & Team Lead
- Led 15 students to build an iPhone-controlled EV, winning the Stanford Build Tech Grant

TEACHING EXPERIENCE

Instructor, Stanford AI4ALL, taught 9th grade girls machine learning and statistics — Summer ’18
TA, CS 326: Topics in Advanced Robotic Manipulation (graduate-level course) — Fall ’17
TA, Industrial Revolution Camp (robotics & entrepreneurship camp for low income students) — Summer ’16

ADVISING & MENTORSHIP EXPERIENCE

Stanford AI Lab Grad/Undergrad Mentorship Program Mentor — April ’18- Current
Ria Doshi (High school student ’22) — Aug ’18-Current
Peter Zachares (Stanford ME Masters ’19) — Sept ’18- Current
Matthew Tan (Stanford CS Undergraduate ’20) — Oct ’18- Current
Rachel Gardner (Stanford CS Undergraduate ’20) — Oct ’18- Current

REVIEWING ACTIVITIES

Conferences: IEEE International Conference on Robotics and Automation (ICRA), Robotics: Science and Systems (RSS)