

LILLIAN CHIN

<http://lillych.in> · (404)-561-9619 · ltchin@mit.edu

EDUCATION

Massachusetts Institute of Technology (MIT) **2017 – 2022 (expected)**
PhD in Electrical Engineering and Computer Science *Cambridge, MA*
Thesis Advisor: Daniela Rus

Massachusetts Institute of Technology (MIT) **June 2017**
B.S. in Electrical Engineering and Computer Science *Cambridge, MA*
Minors in Mechanical Engineering, Comparative Media Studies *GPA: 4.9/5.0*

HONORS

Hertz Foundation Graduate Fellowship **2018**
Paul and Daisy Soros Fellowship for New Americans **2018**
National Science Foundation Graduate Research Fellowship **2018**
MIT Energy Initiative Graduate Fellowship **2018**
Phi Beta Kappa Honors Society, Xi Chapter **2017**

PUBLICATIONS

Peer-Reviewed Journal Articles

- [J.3] Lipton, J., MacCurdy, R., Manchester, Z., **Chin, L.**, Celluci, D., & Rus, D. "Handedness in Shearing Auxetics Creates Rigid and Compliant Structures." *Science*. 360(6389): 632-635. (2018)
- [J.2] Stevens, A., Oliver, R., Kirchmeyer, M., Wu, J., **Chin, L.**, Polsen E., Archer, C., Boyle, C., Garber, J., and Hart, J. "Conformal robotic stereolithography." *3D Printing and Additive Manufacturing*, 3(4): 226-235. (2016)
- [J.1] Harrow, C. and **Chin, L.** "Technology-Enhanced Discovery." *Mathematics Teacher*, **107**: 660 – 665. (2014)

Peer-Reviewed Conference Papers

- [C.2] **Chin, L.**, Lipton, J., MacCurdy, R., Romanishin, J., Sharma, C., & Rus, D. "Compliant Electric Actuators Based on Handed Shearing Auxetics." In *Soft Robotics (Robosoft), 2018 IEEE International Conference on*. IEEE. (2018).
- [C.1] Beaudoin J., **Chin L.**, Zlotnick H., Cervantes T., Lassey S., Robinson J., Slocum A. "Obstetrical Forceps with Passive Rotation and Sensor Feedback". ASME. *Frontiers in Biomedical Devices, 2018 Design of Medical Devices Conference*. (2018).

RESEARCH AND WORK EXPERIENCE

MIT Computer Science & Artificial Intelligence Lab., Distributed Robotics Group **2017 – present**
Graduate Researcher with Dr. Daniela Rus

Toyota Research Institute **Summer 2017**
Robotics Research Intern with Dr. Russ Tedrake

MIT Computer Science & Artificial Intelligence Lab., Distributed Robotics Group **2016 – 2017**
Undergraduate Researcher with Dr. Daniela Rus

MIT Dept. of Mechanical Engineering, Mechanosynthesis Group **2014 – 2017**
Undergraduate Researcher with Dr. John Hart

Apple **Summer 2016**
iPad Hardware Systems Integration, Electrical Engineering Intern

Square **Summer 2015**
Electrical Engineering Intern

MIT Media Lab, Biomechatronics Group **2015**
Undergraduate Researcher with Dr. Hugh Herr

Coursera Summer 2014
Software Engineering Intern

Georgia Institute of Technology, Department of Mechanical Engineering 2011 – 2013
Research Intern with Dr. Michael Leamy

TEACHING EXPERIENCE

Academic

Teaching Assistant, MIT 6.146 – Mobile Autonomous Systems Laboratory 2018
Head Lab Assistant, MIT 6.002 – Circuits and Electronics 2015 – 2017
Lab Assistant, MIT 6.004 – Computation Structures Fall 2016

Extracurricular

Mentor, MIT Women in Electrical Engineering and Computer Science 2018 – present
Mentor and Library Machine Master, MIT MakerWorkshop 2017 – present
Teacher, MIT Educational Studies Program 2013 – present
Tutor, InstaEDU / Chegg Tutors 2014 – 2017
Mentor, Girls Who Code 2015
Mentor, Society of Women Engineers 2014

PROFESSIONAL SERVICE

Local Arrangements Chair, ACM Symposium on Computational Fabrication 2018
Reviewer, IEEE International Conference on Soft Robotics 2018

CURRENT AND FORMER RESEARCH STUDENTS SUPERVISED

Undergraduate Students

Chetan Sharma [C.2] 2017 – present
Luis Trueba 2018 – present
Jacob Miske 2018 – present
Jonathan Tagoe 2018 – present
Aidan Fay 2018
Nathaniel Huffman 2018
John Whitehead 2018
Dani Gonzalez 2018
Antares McCoy-Villaneda 2018

LEADERSHP EXPERIENCE

Treasurer, MIT Sporting Clays Association 2018 – present
President and Founder, Free Fossils MIT 2014 – present
Chair, MIT Undergrad. Association: Student-Administration Collaboration Committee 2015 – 2017
Member, MIT Medlinks 2013 – 2017
Captain, Lead Coder, and Founder, Westminster Robotics Teams 2010 – 2013

SIDE PROJECTS

2.72 – Elements of Machine Design 2016

Desktop lathe that maintained 50 micron precision even after being dropped. Won first place for highest accuracy

MIT Mobile Autonomous Systems Laboratory 2016

Cube-stacking autonomous robot. Won first place, best software, best wiki and "most likely to be staff" award

MakeMIT 2014

Guitar-playing robot that uses solenoids to strum and a rack-and-pinion setup to fret. Won first place.