

# LILLIAN CHIN

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## EDUCATION

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**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

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**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

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### 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

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**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*

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TEACHING EXPERIENCE

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**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

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CURRENT AND FORMER RESEARCH STUDENTS SUPERVISED

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**Undergraduate Students**

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

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PROFESSIONAL SERVICE

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

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LEADERSHP EXPERIENCE

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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

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SIDE PROJECTS

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**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.