

# LILLIAN CHIN

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## ACADEMIC POSITIONS

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<b>University of Texas, Austin (UT Austin)</b> <i>Assistant Professor of Electrical and Computer Engineering</i>	<b>2024 - present</b> <i>Austin, TX</i>
<b>National Institutes of Health (NIH)</b> <i>Postdoctoral Fellow, Advisors: Leonardo Cohen, Tom Bulea</i>	<b>2023 - 2024</b> <i>Bethesda, MD</i>

## EDUCATION

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<b>Massachusetts Institute of Technology (MIT)</b> <i>PhD in Electrical Engineering and Computer Science, Advisor: Daniela Rus</i> <i>Thesis: “Function Follows Form: An Exploration of Robotic Embodiment through Geometry”</i>	<b>2017 - 2023</b> <i>Cambridge, MA</i> <i>GPA: 4.8/5.0</i>
<b>Massachusetts Institute of Technology (MIT)</b> <i>S.M. in Electrical Engineering and Computer Science, Advisor: Daniela Rus</i> <i>Thesis: “A High-Deformation Electric Soft Robotic Gripper via Handed Shearing Auxetics”</i>	<b>2017 - 2019</b> <i>Cambridge, MA</i> <i>GPA: 4.8/5.0</i>
<b>Massachusetts Institute of Technology (MIT)</b> <i>B.S. in Electrical Engineering and Computer Science</i> <i>Minors in Mechanical Engineering, Comparative Media Studies</i>	<b>2013 - 2017</b> <i>Cambridge, MA</i> <i>GPA: 4.9/5.0</i>

## HONORS AND AWARDS

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### Research Awards

Winner (\$5,000) (2 selected, institution) – <a href="#">Dimitris N. Chorafas Award</a>	<b>2023</b>
Winning Team (\$100,000) – <a href="#">Norman B. Leventhal City Prize</a>	<b>2022</b>
Nominated, Best Paper [J.5] – <a href="#">IEEE Robosoft Conference</a>	<b>2021</b>
First Place (\$1,000) – <a href="#">MIT Research Slam</a>	<b>2020</b>
Best Poster Award [C.3] – <a href="#">IEEE Robosoft Conference</a>	<b>2019</b>
First Place, Student Paper Competition [W.3] – <a href="#">ACM Symposium on CS &amp; Law</a>	<b>2019</b>
Finalist (40 selected, nationally) – <a href="#">Intel Science Talent Search</a>	<b>2013</b>

### Fellowships

Fellow (32 selected, internationally) – <a href="#">Schmidt Science Fellows</a>	<b>2023</b>
Fellow (10 selected, nationally) – <a href="#">Hertz Foundation Graduate Fellowship</a>	<b>2018 – 2023</b>
Scholar (55 selected, institution) – <a href="#">MIT Social and Ethical Responsibilities of Computing (SERC) Scholar</a>	<b>2021 – 2023</b>
Fellow (2,000 selected, nationally) – <a href="#">National Science Foundation Graduate Research Fellowship</a>	<b>2018 – 2021</b>
Fellow (40 selected, nationally among first-gen immigrants) – <a href="#">Paul &amp; Daisy Soros Fell. for New Americans</a>	<b>2018 – 2020</b>
Fellow (25 selected, institution) – <a href="#">MIT Energy Initiative Graduate Fellowship</a>	<b>2018</b>
Fellow (75 selected, nationally) – <a href="#">Kleiner Perkins Caulfield Byers (KPCB) Engineering Fellow</a>	<b>2014</b>

### Personal Awards

Participant (85 selected, internationally among EECS academics w. underrepresented genders) – <a href="#">EECS Rising Stars</a>	<b>2022</b>
Participant (70 selected, nationally among underrepresented engineering academics) – <a href="#">NextProf Nexus</a>	<b>2022</b>
Participant (30 selected, internationally among robotics researchers) – <a href="#">Robotics, Science &amp; Systems (RSS) Pioneers</a>	<b>2022</b>
First Place (\$10) – <a href="#">Topsfield County Fair, Crafts Department, Original Needlework</a>	<b>2022</b>
Member (75 selected, institution) – <a href="#">Phi Beta Kappa Honors Society, Xi Chapter</a>	<b>2017</b>
First Place (\$100,000) – <a href="#">Jeopardy College Championship Winner</a>	<b>2017</b>

## PUBLICATIONS

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### Peer-Reviewed Journal Articles

\* indicates members who contributed equally to the manuscript.

[J.13] Chen, V.\*, **Chin, L.\***, Choi, J.\*, & Rus, D. “End-to-End Online Packing of Groceries Enabled by Soft Fingers with Integrated Visual-Tactile Sensing.” Manuscript in preparation.

- [J.12] **Chin, L.**, Lipton J., Xie, G., & Rus, D. “AuxSwarm: A Compliant Cellular Material with Electroactive Voxel-Level Control through Modular Auxetic Robots.” Manuscript in preparation.
- [J.11] Xie, G., Holladay, R.\*, **Chin, L.\***, & Rus, D. “In-Hand Manipulation with a Simple Belted Parallel-Jaw Gripper.” Manuscript under review at *IEEE Robotics and Automation Letters* (2023).
- [J.10] **Chin, L.**, Burns, M.\*, Xie, G.\*, & Rus, D. “[Flipper-Style Locomotion through Strong Expanding Modular Robots.](#)” *IEEE Robotics and Automation Letters*. 8(2), 528-535. (2022)  
Presented at ICRA 2023.
- [J.9] Truby, R.\*, **Chin, L.\***, Zhang, A., & Rus, D. “[Fluidic Innervation Sensorizes Structures from a Single Build Material.](#)” *Science Advances*. 8(31). (2022)
- [J.8] Zhang, A., Truby, R., **Chin, L.**, Li, S., & Rus, D. “[Vision-Based Sensing for Electrically-Driven Soft Actuators.](#)” *IEEE Robotics and Automation Letters*. 7(4): 11509-11516. (2022)  
Presented at IROS 2022.
- [J.7] Araki, B., Choi, J., **Chin, L.**, Li, X., & Rus, D. “[Learning Policies by Learning Rules.](#)” *IEEE Robotics and Automation Letters*. 7(2): 1284-1291. (2021)
- [J.6] **Chin, L.** “[How to Survive a Public Faming: Understanding ‘The Spiciest Memelord’ via the Temporal Dynamics of Involuntary Celebrification.](#)” *First Monday*. 26(4). (2021)
- [J.5] Spielberg, A.\*, Amini, A.\*, **Chin, L.**, Matusik, W., & Rus, D. “[Co-Learning of Task and Sensor Placement for Soft Robotics.](#)” *IEEE Robotics and Automation Letters*. 6(2): 1208-1215. (2021)  
**Nominated, Best Paper Award** at Robosoft 2021.
- [J.4] Truby, R.\*, **Chin, L.\***, & Rus, D. “[A Recipe for Electrically-Driven Soft Robots via 3D Printed Handed Shearing Auxetics.](#)” *IEEE Robotics and Automation Letters*. 6(2): 795-802. (2021)  
Presented at Robosoft 2021.
- [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., & Hart, J. “[Conformal robotic stereolithography.](#)” *3D Printing and Additive Manufacturing*, 3(4): 226-235. (2016)
- [J.1] Harrow, C. & **Chin, L.** “[Technology-Enhanced Discovery.](#)” *Mathematics Teacher*, **107**: 660 – 665. (2014)

### Peer-Reviewed Conference Papers

- [C.9] Xie, G., **Chin, L.**, Kim, B., Holladay, R., & Rus, D. “Strong Compliant Grasps through a Cable-Driven Soft Robotic Gripper.” Manuscript in preparation.
- [C.8] Zhang, A.\*, Wang, T.-H.\*, Truby, R., **Chin, L.**, & Rus, D. “Machine Learning Best Practices for Soft Robot Proprioception.” In *Intelligent Robots and Systems (IROS), 2023 IEEE International Conference on*. IEEE. (2023).  
Manuscript in press.
- [C.7] Stölzle, M., **Chin, L.**, Truby, R., Rus, D., & Della Santina, C. “[Modelling Handed Shearing Auxetics: Selective Piecewise Constant Strain Kinematics and Dynamic Simulation.](#)” In *Soft Robotics (Robosoft), 2023 IEEE International Conference on*. IEEE. (2023).
- [C.6] **Chin, L.**, Barsevicius, F., Lipton, J., & Rus, D. “[Multiplexed Manipulation: Versatile Multimodal Grasping via a Hybrid Soft Gripper.](#)” In *Robotics and Automation (ICRA), 2020 IEEE International Conference on*. IEEE. (2020).
- [C.5] Lipton, J., **Chin, L.**, Miske, J., & Rus, D. “[Modular Volumetric Actuators Using Motorized Auxetics.](#)” In *Intelligent Robots and Systems (IROS), 2019 IEEE International Conference on*. IEEE. (2019).
- [C.4] **Chin, L.**, Yuen, M.C., Lipton, J., Trueba, L.H., Kramer-Bottiglio, R., & Rus, D. “[A Simple Electric Soft Robotic Gripper with High-Deformation Haptic Feedback.](#)” In *Robotics and Automation (ICRA), 2019 IEEE International Conference on*. IEEE. (2019).

- [C.3] **Chin, L.**, Lipton, J., Yuen, M.C., Kramer-Bottiglio, R., & Rus, D. “Automated Recycling Separation Enabled by Soft Robotic Material Classification.” In *Soft Robotics (RoboSoft), 2019 IEEE International Conference on*. IEEE. (2019). **Winner, Best Poster Award**
- [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).

## Patents

- [P.2] Rus, D., Lipton, J., & **Chin, L.** “Vibration absorber for power tools”, US11,583,972, issued on Feb. 21, 2023.
- [P.1] Lipton, J., MacCurdy, R., **Chin, L.**, & Rus, D. “Non-planar shearing auxetic structures, devices, and methods”, US10,850,406, issued on Dec. 1, 2020.

## Workshop and Symposium Contributions

- [W.3] **Chin, L.** “Focusing the Legal Lens on Data: Examining Metaphors of Personal Data and their Legal Implications ” Paper and poster in *2019 ACM Inaugural Symposium on Computer Science and Law* **First Prize, Student Paper Competition**
- [W.2] **Chin, L.** “Design and fabrication of dual-flipping mechanisms.” Abstract and poster in 2019 International Conference on Robotics and Automation workshop: *Robot Design and Customization: Opportunities at the Intersection of Computation and Digital Fabrication*
- [W.1] **Chin, L.**, Lipton, J., MacCurdy, R., Romanishin, J., Sharma, C., & Rus, D. “Compliant Electric Actuators Based on Handed Shearing Auxetics.” Poster in *2018 New England Manipulation Symposium*

## TEACHING EXPERIENCE – ACADEMIC

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### CMS.701 - Current Debates in Media

Teaching Assistant

**2020**

Cambridge, MA

- Led discussions on technology and society for a class of 15 senior undergraduate students.
- Managed transition from in-person to online teaching due to the COVID-19 pandemic.

### MIT Mobile Autonomous Systems Laboratory

Teaching Assistant

**2018**

Cambridge, MA

- One of 7 undergraduate TAs who led this completely student-run course to design an autonomous robot with computer vision in a month.
- Staffed lab for 30 undergraduates, providing mechanical, electrical and programming guidance to 30 undergraduates in a time-constrained environment.

### 6.002 - Circuits and Electronics

Head Lab Assistant

**2015 – 2017**

Cambridge, MA

- Staffed lab for 60-85 undergraduates, guiding students to a better understanding of circuits by helping them debug their lab circuits, from basic ADCs to audio amplifiers
- Organized and scheduled 8 different Lab Assistants, helping them with their duties by giving weekly lab overviews

### 6.004 - Computation Structures

Lab Assistant

**2016**

Cambridge, MA

- Staffed lab for 300 undergraduates, guiding students to a better understanding of digital circuits from the transistor level to creating their own basic CPU in assembly language

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**TEACHING EXPERIENCE – PEDAGOGICAL TRAINING**

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**MIT Kaufman Teaching Certificate Program****2022***Participant**Cambridge, MA*

- Participated in semester-long teaching training program, learning evidence-based teaching techniques to create effective lessons and inclusive classrooms.

**MIT EECS UROP Mentorship Initiative****2022***Focus Group Member**Cambridge, MA*

- Acted as semester-long beta tester for graduate student initiative to develop new guidelines for undergraduate research mentorship

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**TEACHING EXPERIENCE – OUTSIDE OF CLASSROOM**

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**Mentorship**

Mentor, Project SHORT	<b>2021 – 2023</b>
Mentor, MIT EECS Graduate Application Assistance Program	<b>2020</b>
Mentor, Cientifico Latino Graduate Student Mentorship Initiative	<b>2018 – 2020</b>
Mentor, MIT Society of Women Engineers Alumni Mentorship Program	<b>2018 – 2020</b>
Mentor, MIT Office of Minority Education, Laureates and Leaders Program	<b>2018 – 2020</b>
Mentor, MIT Women in Electrical Engineering and Computer Science	<b>2018 – 2020</b>
Mentor, Girls Who Code	<b>2015</b>
Mentor, Society of Women Engineers	<b>2014</b>

**Extracurricular**

Tutor, ESL Program for MIT Facilities Department Employees	<b>2019 – 2020, 2022 – 2023</b>
Mentor and Library Machine Master, MIT MakerWorkshop	<b>2017 – 2020</b>
Teacher, MIT Educational Studies Program	<b>2013 – 2019</b>
Tutor, InstaEDU / Chegg Tutors	<b>2014 – 2017</b>

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**PROFESSIONAL SERVICE**

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**Conference Service**

Program Committee Co-Chair, RSS Pioneers	<b>2023</b>
Local Arrangements Chair, ACM Symposium on Computational Fabrication	<b>2018</b>

**External Paper Reviewer**

IEEE Robotics and Automation Magazine (RA-M)	<b>2023</b>
First Monday	<b>2020 – 2021, 2023</b>
IEEE Robotics and Automation Letters (RA-L)	<b>2019 – 2023</b>
IEEE International Conference on Robotics and Automation (ICRA)	<b>2019 – 2020, 2022, 2023</b>
IEEE International Conference on Soft Robotics (Robosoft)	<b>2018 – 2021, 2023</b>
IEEE International Conference on Intelligent Robots and Systems (IROS)	<b>2019, 2021, 2022</b>
IEEE International Conference on Automation Science and Engineering (CASE)	<b>2021</b>
International Journal of Robotics Research (IJRR)	<b>2019</b>

**Invited Speaker**

<i>Talk: “Materials Make the Bot: Directly Embedding Actuation and Perception into Robotic Structures”</i>	
Queen’s University at Kingston, Centre for Neuroscience Studies Talk	<b>Jun. 2023</b>
UC Berkeley, Mechanical Engineering Seminar	<b>Mar. 2023</b>
UT Austin, Electrical and Computer Engineering Seminar	<b>Mar. 2023</b>
Oregon State, Mechanical Engineering Seminar	<b>Feb. 2023</b>
Carnegie Mellon, Softbotics Seminar	<b>Nov. 2022</b>
Georgia Tech, Mechanical Engineering Seminar	<b>Oct. 2022</b>
UMass Boston, Dept. of Psychology, Class on Research Methods – “Repeated Measures”	<b>June 2023</b>
Hertz Summer Workshop – “Sensorizing Architected Materials with Fluidic Networks”	<b>Jul. 2022</b>
CUNY Queens College, Media Studies Colloquium – “How To Survive a Public Faming”	<b>Nov. 2021</b>
Hertz Fall Retreat – Panel Leader, “Robotics”	<b>Sep. 2020</b>

University of Copenhagen SURF@DAWN – “Embodied Intelligence”	Jul. 2020
Consumer Electronics Expo – Panelist, “Robots Save the Land”	Jan. 2020
Hertz East Coast Retreat – Panelist, “Science and Media”	Sep. 2018
Designed Education – Speaker, “Introduction to Robotics”	Jul. 2018

**Professional Societies:** IEEE, IEEE RAS

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#### RESEARCH STUDENTS SUPERVISED

##### Masters Students

Gregory Xie [J.10, J.11, J.12, C.9, thesis] – <i>Design of tendon-driven gripper and belt-driven gripper</i>	2022 – 2023
Jeana Choi [J.7, J.13, thesis] – <i>System integration of grocery packing robot</i>	2020 – 2022

##### Undergraduate Students

Juliana Covarrubias – <i>Mechanical design of dual-flipping robots</i>	2022 – 2023
Shruti Garg – <i>System integration of sensorized fingers and design of tactile sensors</i>	2022 – 2023
Katherine Pan – <i>Mathematical exploration of dual-flipping robots</i>	2022 – 2023
Grey Saramiento – <i>Algorithmic lattice generation and routing of fluidic sensors</i>	2022 – 2023
Daniel Tong – <i>Exploration of resin chemistry and metamaterial design through nTopology</i>	2022 – 2023
Max Burns [J.10] – <i>Application exploration of modular volumetric robots</i>	2022
Nine Morch – <i>Design testing rigs for metamaterials; mechanical design of dual-flipping robots</i>	2022
Ahmed Diongue – <i>Mechanical characterization of metamaterials</i>	2022
Valerie Chen [J.13] – <i>Computer vision algorithms for bin packing; tactile sensor design</i>	2019 – 2022
Gregory Xie [J.10, J.12] – <i>System design of modular volumetric robots</i>	2019 – 2021
Joaquin Giraldo-Laguna – <i>Fabrication and simulation of modular volumetric robots</i>	2020
Sofia Leon – <i>Mechanical design of dual-flipping robots</i>	2019 – 2020
Hannah Adams – <i>Mechanical characterization of metamaterials</i>	2019
Felipe Barscevicus [C.6] – <i>Mechanical design of multiplexed manipulator</i>	2019
Andromeda Teevens – <i>Exploration of machine learning segmentation algorithms</i>	2019
Sabina Tontici – <i>Mechanical design of soft robotic gripper</i>	2019
Chetan Sharma [C.2] – <i>Mechanical design of soft robotic gripper covering</i>	2017 – 2019
Shiloh Curtis – <i>Exploration of computer vision segmentation algorithms</i>	2018 – 2019
Jacob Miske [C.5] – <i>System design of modular volumetric robots</i>	2018 – 2019
Jonathan Tagoe – <i>Design testing rigs for metamaterial characterization</i>	2018 – 2019
Antares McCoy-Villaneda – <i>Design testing rigs for metamaterial characterization</i>	2018
Luis Trueba [C.4] – <i>Grasping tests and mechanical design of grocery packing testbed</i>	2018

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#### OTHER EMPLOYMENT

##### Toyota Research Institute

June – Aug. 2017

*Robotics Intern*

Cambridge, MA

- Designed automated mechanical testing rigs to evaluate performance of new soft tactile sensor against simulation
- Created new silicone-based tactile skin and performed experiments on mechanical adhesion and accuracy
- Explored current tactile sensing solutions - contacting manufacturers and recreating academic prototypes

##### MIT Computer Science & Artificial Intelligence Lab., Distributed Robotics Group

Sept. 2016 – June 2017

*Undergraduate Researcher with Dr. Daniela Rus*

Cambridge, MA

- Designed electrically-powered soft robotic actuator based on handed shearing auxetic patterns.
- Mechanically characterized force output and compliance of new actuator, creating soft robotic linear actuator.

##### Massachusetts Institute of Technology, Department of Mechanical Engineering

Feb. 2014 – Jan. 2017

*Undergraduate Researcher with Dr. John Hart*

Cambridge, MA

- Created machine vision algorithms in C++ for dynamic photolithography system, increasing speed of tracking, detection and encapsulation by 300% with multithreading, Kalman filters and bit plane splicing.
- Performed encapsulation experiments on liver hepatocytes in photopolymers for tissue engineering applications.
- Adapted photolithographic system to a robot arm, enabling accurate micropatterning on macro-scale objects. Improved scanning system’s accuracy and designed mechanical enclosures for electronic / optical systems.

- Designed and printed NFC circuits to test capabilities of photolithography system for flexible circuits
- Analyzed performance of various particle detection and tracking algorithms in simulated and actual conditions.

## **Apple**

*iPad Hardware Systems Integration, Electrical Engineering Intern*

**June – Aug. 2016**

*Cupertino, CA*

- Designed schematic layout and PCB board in Cadence for internal project board involving high-speed signals.
- Wrote TCL scripts to validate basic functionality on primary SoCs. Deployed and supported this test suite at stations on SMT, FATP and REL lines in China.
- Performed and debugged power validation and signal integrity measurements on low and high speed signals, including SPI, I2C, and PCIe.
- Brought up and performed failure analysis on boards and full systems, working cross-functionally among product design and module teams
- Conducted thermal experiments on battery life and power output. Wrote Python scripts for data analysis and visualization, suggesting testing and board design changes based on results.
- Wrote scripts in Lua and C++ to take internal eye diagram measurements of high-speed signal lines.

## **Square**

*Electrical Engineering Intern*

**June – Aug. 2015**

*San Francisco, CA*

- Wrote C code for NFC card proximity detection that interfaced with 2 microcontrollers, an FPGA, ADC/DACs, and a voltage regulator. Key part of firmware needed to pass contactless payment certification
- Tuned NFC antennas with VNA and SMT rework skills, enabling proposal of new antenna design directions
- Wrote Python script to send HCI commands to Bluetooth chip, validating results with spectrum analyzer
- Supported EVT build of 300 units in China with electrical engineering, embedded software and translation skills for SMT and FATP factory lines
- Provided foundation for algorithm to automatically design tamper mesh in Altium
- Created preliminary schematics and PCB layout for new NFC board in Altium

## **MIT Media Lab, Biomechatronics Group**

*Undergraduate Researcher with Dr. Hugh Herr*

**Jan – May 2015**

*Cambridge, MA*

- Created thin-wire electrodes and Matlab script to stimulate rat sciatic nerve and measure response
- Wrote automated particle analysis in ImageJ to measure and differentiate neuron size, count and g-ratio to quantify nerve regrowth

## **MIT Computer Science and Artificial Intelligence Laboratory, Big Data Initiative**

*Undergraduate Researcher with Dr. Sam Madden*

**Sept. – Dec. 2014**

*Cambridge, MA*

- Strengthened Django and Javascript frameworks of a system that allowed users to control data privacy and access
- Created REST API for the personal data storage system, enabling interfacing with iOS and Android sensors

## **Coursera**

*Software Engineering Intern*

**June – Aug. 2014**

*Mountain View, CA*

- Wrote Javascript for on-demand certification, moving Coursera's major revenue generator to an updated platform.
- Restructured large portion of backend logic in PHP and Django for Coursera's shift to single certification and trials.
- Created internal analytics dashboard in AngularJS to monitor status of product and revenue generated.

## **Georgia Institute of Technology, Department of Mechanical Engineering**

*High School Researcher with Dr. Michael Leamy*

**May 2011 – Aug. 2013**

*Atlanta, GA*

- Constructed an agent-based model in NetLogo to study collective cell movement during wound healing.
- Innovatively applied engineering principles to create model based on biological time-lapse videos of wound healing.

## **Emory University, Department of Pharmacology**

*High School Researcher with Dr. Jennifer Hurst-Kennedy*

**Aug. 2011 – May 2013**

*Atlanta, GA*

- Conducted cell invasion and cell-migration assays to study the role of a deubiquitinating enzyme in cancer metastasis.
- Established a method for quantitative analysis of cell invasion data taken from time-lapse confocal video microscopy.

- Investigated locus of a conic section's foci using dynamic geometry and computer algebra software
- Analyzed behavior found by applying projective and algebraic geometry to the problem.

[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.