

New Lab, 19 Morris Ave, Brooklyn, NY, 02141

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Education

Ph.D. Biological Engineering

Cambridge, MA

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, GPA 4.90/5.00

Aug 2014 - June 2019

B.S. Biomedical Engineering and **Electrical Engineering & Computer Science**

Berkeley, CA

Brooklyn, NY

University of California Berkeley, GPA 3.96/4.00

Aug 2010 - 2014

Work Experience.

Nextiles, Inc.

FOUNDER & CTO June. 2019 - Present

· Code in Python, R, and bash scripting

Design Lab X Puma Cambridge & Nuremberg

LEAD EMBEDDED ENGINEER Jan. 2017 - Jan. 2018

- Developed access control management systems for Cloud Foundation Services
- Tested cloud container services and created prototype for user interface

Communication Lab Cambridge, MA

COMMUNICATION FELLOW & INSTRUCTOR Jun. 2015 - May. 2019

- · Provided classes and instructions
- · Tested cloud container services and created prototype for user interface

Research Experience _

Biomolecular Materials Group, MIT

Cambridge, MA

GRADUATE RESEARCHER

Aug. 2014 - Apr. 2016

March. 2014 - Aug. 2014

- · Develop machine learning and bioinformatics tools to analyze proteomic, genomic, and epigenetic data
- · Code in Python, R, and bash scripting

Molecular Engineering Imaging and Control, Caltech

Pasadena, CA

Undergraduate Researcher

- Developed access control management systems for Cloud Foundation Services
- · Tested cloud container services and created prototype for user interface

Molecular Engineering Imaging and Control, Berkeley

Berkeley, CA

Undergraduate Researcher

Jan. 2011 - Aug. 2014

- Developed access control management systems for Cloud Foundation Services
- · Tested cloud container services and created prototype for user interface

Publications

ACADEMIC JOURNALS

Sun, George L., and Angela M. Belcher. "Engineering supramolecular forming proteins to chelate heavy metals for waste water remediation." (2020). in submission.

Sun, George L., Erin E. Reynolds, and Angela M. Belcher. "Using yeast to sustainably remediate and extract heavy metals from wastewaters." Nature sustainability (2020). in review.

Gilbert, C., Tang, T. C., Ott, W., Dorr, B. A., Shaw, W. M., Sun, G. L., ... & Ellis, T. "Living materials with programmable functionalities grown from engineered microbial co-cultures." bioRxiv. (2019).

Sun, George L., Erin E. Reynolds, and Angela M. Belcher. "Designing yeast as plant-like hyperaccumulators for heavy metals." Nature communications 10.1 (2019): 1-12.

DECEMBER 26, 2019 GEORGE L. SUN Shapiro, M. G., Ramirez, R. M., Sperling, L. J., **Sun, G.**, Sun, J., Pines, A., ... & Bajaj, V. S. (2014). "Genetically encoded reporters for hyperpolarized xenon magnetic resonance imaging." *Nature chemistry* 6.7 (2014): 629.

WEB PUBLICATIONS

Sun, George L. "File Structure". Mechanical Engineering Communication Lab, MIT. (2019). https://mitcommlab.mit.edu/meche/commkit/file-structure/.

McLean, K., Peters J., Ramamoorthy, D., **Sun, G.**, Toth T., Triassi A., Prerna B. "Awesome BECL Resources". *Biological Engineering Communication Lab, MIT.* (2019). https://github.com/MIT-BECL/awesome-becl-resources.

Sun, G., Wang, D., Gerarld, K. "Air Guitar". Instructables. (2016). https://www.instructables.com/id/Air-Guitar/.

Patents

Sun, George L.. "Devices for static and dynamic body measurements." US Patent 16/573,727. 20 November 2019. (approved, not yet public)

Sun, George L.. "Methods of manufacturing devices for static and dynamic body measurements." US Patent 10,458,866. 29 October 2019.

Sun, George L.. "Systems, methods, and devices for static and dynamic body measurements." US Patent 10,378,975. 13 August 2019.

Sun, George L., and Angela M. Belcher. "Engineered yeast as a method for bioremediation." U.S. Patent 15/887,305. 18 August 2018

Honors & Awards_

2019-Curr	Member	New Lab Innovation Space	New York, NY
2019	Member	Delta V Accelerator	New York, NY
2019	Recipient	NSF I-Corps Program	Philadelphia, PA
2014-2019	Recipient	NSF Graduate Research Fellowship Program	Cambridge, MA
2016-2019	Recipient	Amar G. Bose Research Grant	Cambridge, MA
2018-2019	Recipient	CEHS Pilot Grant	Cambridge, MA

Skills_

Machinery	Solder/Reflow, 2-3DoF CNC, Vinyl Cutters, Laser Cutters, 3D Printing, Molding/Casting, Screen Printing, Vacuum Forming	
Digital Fabrication	Eagle PCB, Fusion CAD/CAM, Techpacker, Multimeter/Oscilloscope, TTL/UART/I ² C/ISP Communication	
DevOps	Microsoft Suite, Airtable, Coda, Slack, Asana, Docsend, Git/hub/lab, GoDaddy, Webflow, Heroku, Mlab, AWS	
Programming	Javascript (Node.js), Python (Matplotlib, Numpy, Scipy, Pandas, Notebooks), R (Tidyverse, Notebooks), GO, LaTeX	
Back-end	Express, MongoDB, Websockets, BLE Stack, REST API	
Front-end	D3.js, Three.js, Leaflet.js, Gulp, Yeoman, HTML5, Bootstrap, SASS	