

Gloria Chyr

Sunnyvale, CA 94085 • 786-838-1910 • gloria.chyr@gmail.com

EDUCATION

Stanford University

M.S. Materials Science & Engineering, Polymers

Stanford, CA

2023

Massachusetts Institute of Technology (MIT)

B.S. Materials Science & Engineering, Minor in Japanese Language

Cambridge, MA

2020

EXPERIENCE

Stanford University – DeSimone Lab

Graduate Research Assistant

Stanford, CA

2021-2023

- Synthesized & characterized sustainable and biocompatible photopolymers
- Experience with wet lab, chromatography, NMR, DSC, DMA, and rheology
- Experience with mammalian cell culture and *in vivo* studies for biocompatibility
- Experience with 3D printing (SLA, FDM, VP) and device prototyping

SCREEN Semiconductor Solutions

R&D Track Systems Intern (Process Engineer intern)

Shiga, Japan

Summer 2019

- Identified sources of temperature non-uniformity in semiconductor wafer bake units
- Improved temperature uniformity on single wafers and temp consistency across multiple wafers by 30%
- Developed temperature off-set calculator to improve real-time heating of wafers
- Experience with industrial clean room and semiconductor manufacturing equipment

MIT Dept of Civil Engineering

Undergraduate Researcher

Boston, MA

2016-2018

- Designed bioinspired structural polymer composites using CAD and 3D printing
- Improved toughness of composites by 150% by modifying macrostructures
- Presented work at SES 2017 Boston Conference and MRS 2017 Fall Conference

PUBLICATIONS

1. Wu, Y.C.M., **Chyr, G.**, *et. al.* (2023). Stretchable, recyclable thermosets via photopolymerization and 3D printing of hemiacetal ester-based resins. *Chem. Sci.*
2. **Chyr, G.**, & DeSimone, J.M. (2023). Review of high-performance sustainable polymers in additive manufacturing. *Green Chemistry.*

VOLUNTEER & LEADERSHIP

Minds Matter Bay Area

College Admissions Counselor

Stanford, CA

present

- Advise high achieving, low-income high school students in college admissions and financial aid processes
- Review and edit personal statements for college applications

CASE Food Insecurity Project

Team Lead

Cambridge, MA

1 year

- Initiated and advised a student-led at-cost campus grocery store
- Initiated and maintained 5 free on-campus food pantries