Brittany Trinh

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EDUCATION

University of Wisconsin-Madison (UW), Madison, WI — Sept. 2021 – Present
Graduate Student, PhD Chemistry, Materials Chemistry path

University of Houston (UH), Houston, TX — Dec. 2018
B.S. Chemistry, Minor in Psychology

RESEARCH EXPERIENCE

UW Dept. of Chemistry — Sept. 2021 – Present
Advisor: Prof. AJ Boydston

- Develop and characterize mechanical properties of materials made by metal-free ring-opening metathesis polymerization

UH Dept. of Chemistry — Nov. 2017 – Dec. 2018
Advisor: Prof. Melissa Zastrow

- Evaluated effects of iron, zinc, and manganese uptake in *E. coli* and *L. plantarum* to model the gut microbiota.

UH Dept. of Civil and Environmental Engineering — June 2016 – Aug. 2017
Advisor: Prof. Debora Rodrigues

- Investigated removal of chromium and nitrates from industrial wastewater by optimizing and testing efficacy of hydrogel nanotechnologies and polymer coatings for cellulose membranes.

PEER-REVIEWED PUBLICATIONS

1. Huynh, U.; Qiao, M.; King, J.; Trinh, B.; Valdez, J.; Haq, M.; Zastrow, M. L. Differential Effects of Transition Metals on Growth and Metal Uptake for Two Distinct Lactobacillus Species. *Microbiol Spectr* **2022**, e01006-21. https://doi.org/10.1128/spectrum.01006-21.

POSTER PRESENTATIONS

1. Trinh, B.**,** Gilbert, D. W., Singer, X., Shitera, G., Wurm, D. B., Norwood, D. Viscosity Measurement of Polyvinyl Alcohol Solutions in Various Solvents. Applied Polymer Technology Extension Consortium, Baton Rouge, Louisiana, **Nov. 2019.**
2. Trinh, B.**,** Huynh, U., Zastrow, M. L. Metal Ion Uptake in Lactobacillus Plantarum as a Model Organism for Studying the Human Gut Microbiota. UH Undergraduate Research Day, Houston, Texas. **Oct. 2018.**
3. Trinh, B.**,** Rodrigues, D. Effective Treatment of Chromium Plating Wastewater using a Chitosan Composite Polymer. UH Undergraduate Research Day, Houston, Texas. **Oct. 2016.**
4. Trinh, B., Rodrigues, D. Effective Treatment of Chromium Plating Wastewater using a Chitosan Composite Polymer. Houston Scholars Showcase, Houston, Texas. **Sept. 2016.**

WORK EXPERIENCE

Website Designer, Brittany Trinh Creative LLC (Remote) — Sept. 2019 – Present

- Conceptualized and designed over 20 websites for academic researchers.
- Presented talks to STEM graduate student organizations, over 100 participants in total.
- Published “How to Create a Website to Showcase Your Work” in American Chemical Society’s Chemical and Engineering News email newsletter, reaching over 1900 people.

Technical Services Specialist, Sekisui Specialty Chemicals (Houston, TX) — Jan. 2019 – July 2021

- Developed and characterized polyvinyl alcohol (PVOH) polymer products and formulations.
- Investigated technical issues regarding PVOH in personal care, packaging, and adhesives.
- Collaborated with the Norris group at Southeastern Louisiana University to determine effects of solvents on viscosity of polymer/alcohol blends.

Intern, Air & Waste Engineering, Inc. (Houston, TX) July 2017 – Dec. 2017

- Developed an Excel program to improve the processing time of volatile emissions calculations.
- Analyzed data to ensure compliance with Texas Commission on Environmental Quality's air permits.

Resident Advisor, UH Student Housing and Residential Life Aug. 2015 – Dec. 2018

- Mentored and built community with over 30 first-year students yearly to support their undergraduate experience by leading monthly events about study strategies, professional development, mental health, and diversity, equity, and inclusion.

OUTREACH

STEM Advocacy Institute Sept. 2020 – May 2021
Presented workshops on developing websites for STEM engagement initiatives.

Houston Museum of Natural Science – Sugar Land June 2018 – Aug. 2018
Coached high school volunteers on science communication techniques.

Houston Citizens' Environmental Coalition Oct. 2017 – May 2018
Researched and published weekly updates on environmental developments in the Houston area.

Non-music Major Orchestra at UH April 2015 – Dec. 2018
Founded the first full orchestra for non-music majors with over 150 unique members in 2 years.

ACADEMIC SERVICE

Catalyst at UW Dept. of Chemistry Sept. 2022 – Present
Coordinate professional development events to support first-year graduate students from underserved populations to succeed in their graduate school journey.

INVITED TALKS

1. "Website Setup Workshop," Biology Graduate Student Association (GSA), Utah State University (Virtual), Oct. 2022.
2. "How to Create a Website," Unleash Your PhD Conference (Virtual), Oct. 2022.
3. "From Undergraduate to Industry to Graduate School," Chemistry Undergraduate Supergroup, UW, Madison, WI, Sept. 2022.
4. "My Graduate School Journey," The Academic Society for McNair Scholars (Virtual), June 2022.
5. "Website Starter Kit," Cellular Biology GSA, University of Georgia (Virtual), June 2022.
6. "Website Starter Kit," Society for Asian American Graduate Affairs, Cornell University (Virtual), April 2022.
7. "Development of Websites for Impact," STEM Advocacy Institute (Virtual), March 2022.
8. "Create Your Starter Website," Unleash Your PhD Conference (Virtual), Oct. 2021.
9. "Website Starter Kit," STEM Advocacy Institute (Virtual), April 2021.
10. "Website Starter Kit," Entomology GSA, Cornell University (Virtual), March 2021.
11. "Your Starter STEM Website," STEM Advocacy Institute (Virtual), March 2021.
12. "Communication Matters," STEM Advocacy Institute (Virtual), Sept. 2020.
13. "Create Your Starter STEM Website," Wonder Women in STEM Conference (Virtual), Aug. 2020.
14. "Why You Need a Website," Microbial Early-Career Researchers Association, University of Illinois Urbana-Champaign (Virtual), May 2020.

OTHER MEDIA & PUBLICATIONS

1. "Having Doubts and Fears while Pursuing Your Dream," Daring Living Podcast, Oct. 2022.
2. "How to Create a Website to Showcase Your Work," American Chemical Society Chemical and Engineering News (ACS C&EN) Digital Newsletter, Dec. 2021.
3. "From Chemical Engineering to Chemistry & Websites," EnJENeer Podcast, Aug. 2020.
4. "Brittany Trinh Talks STEM Website Design," The Social Academic Podcast, July 2020.
5. "Develop your industrial knowledge," ACS C&EN, May 2019.

TEACHING EXPERIENCE

UW Graduate Teaching Assistant Sept. 2021 – May 2022
Led general chemistry discussion and laboratory experiments for 40 students.

Scholar Enrichment Program Jan. 2017 – Dec. 2018
Mentored undergraduate general chemistry students.

Houston Pre-freshman Enrichment Program June 2015 – Aug. 2015
Taught high school students programming logic using R Project and Excel.

HONORS & AWARDS

Catalyst Leadership Scholarship	2022
UW Pei Wang Fellowship	2021 - 2022
UH Natural Science and Mathematics Alumni Association Scholarship	2018
Houston Louis Stokes Alliance for Minority Participation Scholarship	2017 - 2018
Houston Scholars Research Scholarship	2017
Thomas & Richard Franklin Scholarship	2017 – 2018
Audience's Favorite Poster Award	2016
Baldwin Pi Kappa Alpha Scholarship	2016
Academic Excellence Scholarship	2014 - 2018
Cullen Leadership Scholarship	2014 - 2018
Foundation Excellence Scholarship	2014 – 2017

PROFESSIONAL DEVELOPMENT

1. "Peer-Mentorship Training (Adapted from the NRMN/CIMER Curriculum)", UW, Sept. 2022