

OLIVIA BRANDT

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EDUCATION

JULY 2023 (EXPECTED) PH.D MATERIALS ENGINEERING, PURDUE UNIVERSITY
Purdue Doctoral Fellowship (2019)

JUNE 2019 B.S MATERIALS ENGINEERING, UNIVERSITY OF CALIFORNIA, RIVERSIDE
Cum Laude, Academic Excellence Award in Materials Engineering (May 2018)

RESEARCH EXPERIENCE

AUGUST 2019 – PRESENT GRADUATE RESEARCH ASSISTANT, TRICE RESEARCH GROUP

Investigated a novel processing method for creating a multi-porous heat exchanger that will increase heat exchanger efficiency by 2%. This processing method requires creating a processing scheme for pressurelessly sintering silicon carbide. Additionally, co-extrusion of a silicon carbide plus polymer blend will be used to extrude channels to create macro-channels with over 40% porosity.

NOVEMBER 2017 – JULY 2019 UNDERGRADUATE RESEARCH ASSISTANT, MATHAUDHU GROUP

Studied the effects of processing variables such as temperature and pressure on spark plasma sintered aluminum powder. Through this study, I was able to improve the relative density from 85% to 95% density.

LEADERSHIP EXPERIENCE

JUNE 2020 – PRESENT LEADERSHIP TEAM MEMBER, GWEN, PURDUE

My responsibilities for the Graduate Women in Engineering Network were to facilitate one weekly leadership team meetings, take minutes during one meeting and plan at least one lunch and learn event per semester. One of the lunch and learn events I hosted was on confidence in the workplace where the participants learned about self-confidence and ways to improve self-confidence. Additionally, I was responsible for tracking attendance throughout the semester and reporting on ways attendance could be improved.

JUNE 2020 – PRESENT PRESIDENT'S COUNCIL OF STUDENT ADVISORS, ACERS

I was on the communications subcommittee where some of my tasks included finding people to write the student column in the monthly ACerS bulletin. Additionally, I was responsible for a monthly social media post where I would post different topics relating to ACerS, PCSA, and ceramic in general. I also took the lead on delegate information packets which was a packet of information given to PCSA delegates that consisted of university contacts and other information about ACerS communication guidelines.

MAY 2018 – APRIL 2019 HISTORIAN, SWE, UC RIVERSIDE

My responsibilities were to keep digital records of the on-goings of SWE-UCR. These records included taking pictures as well as creating a monthly newsletter that detailed the on-goings of the organization. Additionally, I participated in weekly officer meetings where I helped to plan the ice breakers and topics for our general meetings.

OCTOBER 2018 – APRIL 2019 PEER MENTOR, UC RIVERSIDE

I was a senior undergraduate mentor for incoming females in the materials engineering department. I met with my mentees once a month where I gave them advice about classes, university in general, and on how to get internships and research opportunities.