

RYAN PENG

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Updated Jan 2023

EDUCATION

Brown University, Sc.B. Design Engineering, 3.98/4.00 GPA Providence, RI | **Expected Graduation May 2025**

Rhode Island School of Design (cross-registration), Industrial Design/Theory and History of Art and Design

EXPERIENCE

Brown University School of Engineering, Teaching Assistant Providence, RI

ENGN0032 Introduction to Engineering: Design, Head Teaching Assistant Spring/Fall 2023

- **Manage 40** teaching assistants, homework, projects, and office hours
- **Lead weekly studio, hold homework office hours and mentor group projects**

ENGN0040 Dynamics and Vibrations Spring 2023

- **Grade 30-40** homeworks **weekly**

ENGN0032 Introduction to Engineering: Design Fall 2022

- **Teach weekly studio, hold 4+ homework office hours and mentor group projects**

Chi Lab, St. Jude Children's Research Hospital, Student Researcher Memphis, TN | May 2022 – Aug 2022

- **Genotyped up to 750 murine samples** by polymerase chain reaction (PCR) and agarose gel **weekly**
- Performed **sgRNA cloning** and **immunostaining** on demand

Tri-State Neurology, Administrative Intern Memphis, TN | Jun 2021 – Aug 2021

- **Digitized 5000+ patient files** from the now-obsolete paper chart system
- **Called 250+ patients** to update mismatched or outdated demographic information

TEDxMemphis, Light Board Operator Memphis, TN | Jan 2018, Feb 2019, Feb 2020

- **Coordinated 100s of event cues across 150+ lights** with stage manager, sound, projection, and stagehands live and during dress rehearsal
- **Completed full technical event setups in 1 day timeframe, teardowns in 3 hour timeframe**

Wilson Lab, TN Governor's School for Emerging Technologies, Student Cookeville, TN | Jun 2019 – Jul 2019

- Thermomechanics/cryogenics research of lead-free SAC305 solder including **finite element analysis (FEA)**, **tensile testing**, **electron microscopy**, and **thermal cycling**

ACTIVITIES

College Curriculum Council, Voting Member Oct 2022 – Present

- **Review and approve** undergraduate curriculum offerings, including concentrations and classes

Better World by Design, Co-Chair, Financial Signatory Nov 2021 – Present

- **Negotiate** conference sponsorships and **manage** budget up to **\$90k**

The Critical Review, Editor Sep 2021 – Present

- **Copy edit** up to **40** class reviews from up to **100** surveys for prospective students **semesterly**

Brown/RISD STEAM, STEAMrave Team Sep 2021 – May 2022

Design for America RISD | Brown, Studio Member Sep 2021 – May 2022

TEDxBrownU, Operations Associate Sep 2021 – May 2022

VOLUNTEERING

St. Jude Children's Research Hospital, Volunteer Memphis, TN | Jul 2019, Jun 2020 – Aug 2020

- **Visited 50+** inpatient rooms, **hosted 3** activities daily for patients in common areas
- **Edited 10** scientific papers
- **Processed** mass spectrometry proteomics data sets with **100,000+ proteins** and **developed** Python program to analyze protein uniqueness

AWARDS

Eagle Scout, **Boy Scouts of America**

Presidential Scholar Semifinalist, **United States Department of Education**

SKILLS & INTERESTS

Proficient in Microsoft Office Suite, Google Workspace, Python, MATLAB, Java, HTML/CSS, SOLIDWORKS, Fusion 360, Rhino, SketchUp, Shop Skills (Woodworking, Laser Cutting, 3D Printing, Soldering, Basic Metalworking), ABAQUS, DaVinci Resolve, Final Cut Pro X, Pro Tools, Canva, QLab, ETCnomad, Lighting & Projection Design, Sound Design

Elementary in Adobe Illustrator, Adobe InDesign, Adobe Photoshop

Language: Native proficiency in English, professional proficiency in Classical Latin, conversational proficiency in Mandarin Chinese

Interests: Collecting coffee table books, exploring countries, hiking everywhere, playing the violin, swimming