

# Robyn E. Ridley

Nine years of academic research, writing/editing, and teaching experience in materials science, applied physics, design, and engineering. Seeking full-time job opportunities in technical writing, editing, and communications. Positions with remote flexibility preferred.

## Experience

July 2020 – June 2023

### Assistant Professor of the Practice, Wesleyan University

- Taught courses, created curriculum, and consulted on degree standards in the interdisciplinary Integrated Design, Engineering, Arts, and Society (IDEAS) program.
- Facilitated 20 – 36 simultaneous student design projects per semester.
- Obtained grants and managed large purchases (\$10,000+).

September 2022 – April 2023

### Developmental Editor, Research Square Company, Springer Nature

- Worked in a remote team to provide in-depth technical, language, and narrative editing on scientific research papers.
- Helped ten author clients achieve their publishing goals in five months.

June 2015 – July 2020

### Graduate Student Researcher, UC San Diego

- Managed all aspects of a five-year research project in materials science and engineering, including experimental design and writing SOPs.
- Earned three prestigious research fellowships, wrote and published three first-author scientific journal articles, and presented at ten international research conferences.
- Conducted wet lab experiments and simulation analysis for research on colloidal nanoparticle synthesis systems and ionic polymer metal composites (IPMCs).
- Trained and supervised two students conducting laboratory research.

June 2016 – June 2019

### Executive Board Member, UC San Diego BGPSA

- Co-founded the Black Graduate and Professional Student Association (BGPSA).
- Collaborated with the executive board to grow BGPSA membership from 5 students to 100+ students over three years.
- Planned and executed monthly community building and professional development events for BGPSA members.
- Provided consultation to high-ranking university executives including the Chancellor, Vice Chancellors, and Graduate School Dean to inform changes to university policies and programs.

July 2017 – August 2018

### Advisor, UC San Diego STARS

- Served as a mentor for 16-20 undergraduate students participating in the Summer Training Academy for Research Success (STARS).
- Created and taught workshops on research skills and professional development.
- Provided editing and feedback on student research presentations and reports.

June 2013 – May 2015

### Undergraduate Researcher, University of Pennsylvania and Columbia University

- Conducted research on magnetic (Ni, Co, Ni-Co alloys) as an NSF-REU Fellow at University of Pennsylvania.
- Led senior thesis research project on semiconductor (PbS, PbS<sub>2</sub>) nanoparticles at Columbia University.
- Conducted wet lab experiments, analyzed experimental data, wrote research reports, and presented research at undergraduate research conferences.

October 2010 – July 2015

### Administrative Assistant, Columbia University EDAR

- Assisted staff with day-to-day and event operations for the Engineering Development and Alumni Relations (EDAR) office.
- Handled confidential communications and financial documents.
- Created event advertisements, assembled event materials, and managed event registration for 10-15 events per year.

## Select Publications (6 total)

1. "Without inclusion, diversity initiatives may not be enough," *Science* (2017) – Coauthor
2. "Predicting Destabilization in Salt-Containing Aqueous Reverse Micellar Colloidal Systems," *ACS Earth Space Chem* (2021) – First Author
3. "Phase Stability and Miscibility in Ethanol/AOT/*n*-Heptane Systems: Evidence of Multilayered Cylindrical and Spherical Microemulsion Morphologies," *Langmuir* (2020) – First Author

## Contact Information

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[Google Scholar](#)

## Education

**PhD (2020)** - University of California, San Diego  
*Awards: Alfred P. Sloan Scholar, San Diego Fellow, Achievement Rewards for College Scientists*

**MS (2017)** - University of California, San Diego

**BS (2015)** - Columbia University  
*Awards: American Chemical Society Scholar*

## Skills

- Writing
- Editing
- Interdisciplinary Research
- Design Thinking
- Project Management
- Data Analysis
- Teaching and Mentoring
- Public Speaking
- Graphic Design
- Customer Service
- Materials Science and Engineering
- Applied Physics
- Chemistry
- Microsoft Office Software (Word, Excel, PowerPoint, Outlook, OneNote)
- Collaborative Remote Work Software (Slack, Google Suite, Microsoft SharePoint)
- Remote Meeting Software (Zoom, Google Meet, Microsoft Teams)
- Project Management Software (Notion, Microsoft Planner, Trello, TeamGantt)
- Adobe Creative Cloud Software (Illustrator, Acrobat, InDesign)
- CAD Software (Solidworks, Autodesk Fusion360)
- Digital Design and Fabrication (3D Printing, Laser Cutting)