

# Meghan H. Shen

UC SAN DIEGO

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## Education

**University of California, San Diego** 9/18-6/22  
NanoEngineering B.S., Physics Minor  
Honors GPA 3.94, Major GPA 3.98

## Honors & Awards

**Tau Beta Pi, Engineering Honor Society**  
1/20-Present

- NanoEngineering Department Representative, Historian officer
- Host technical workshops and professional development events

**Triton Experiential Learning Scholar (TRELS)**  
9/20-6/21

- Conduct research project involving laser assembly and generation of UVC light

**Phi Beta Kappa, Honor Society** 4/21-Present  
**Provost Honors** 9/18-Present  
**Warren College Honors Society** 9/18-Present  
**Raytheon Scholar Award Recipient** 8/20

## Skills

### Programming & Technical

- MATLAB - engineering analysis
- Python - optimization functions
- Origin - electrochemical data visualization
- VESTA - 3D crystal structure visualization
- Blender - 3D graphics rendering
- Microsoft Office - data analysis and presentation

### Lab Techniques

- Coin and pouch cell assembly
- Advanced cathode synthesis and casting
- Polyol synthesis of nanoparticles
- Pharos Laser operation - machine components for HHG experiments

## Research Experience

**SULI Intern, Stanford Linear Accelerator Consortium**  
Summer Intern with GISMo 6/21-Present

- Transactive Energy Services System (TESS) project
- Implement renewable energy bidding functions to optimize grid storage and capacity
- Use python numpy, pandas modules for data visualization

**Lab for Energy Storage and Conversion**  
Research Assistant 1/21-Present

- Synthesize advanced electrode materials for energy storage cells
- High energy battery development, electrolyte optimization

**PopmintchevLABS, UC San Diego Physics**  
Research Assistant 6/20-Present

- Assemble vacuum and laser components
- Optical set-ups and FROG analysis for high harmonic generation experiments

**Du Radiology Lab, ACTRI**  
Research Assistant 3/19-5/20

- UTE imaging, motion registration, correction, and MATLAB analysis on CT scan slices

## Employment & Activities

**UCSD Teaching and Learning Commons**  
Supplemental Instruction Leader 9/19-12/20

- Lead study sessions for undergraduate peers and facilitate group collaboration with calculus and linear algebra activities

### Big Sister STEM

- Provide 1-on-1 mentoring to young women, promote diversity in STEM