

# AVERY P. MATTHEWS

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## EDUCATION

<b>Northwestern University</b> , Evanston, IL Ph.D., Materials Science and Engineering, GPA: 3.56/4.00	August 2021
<b>Pennsylvania State University</b> , State College, PA Bachelor of Science, , Materials Science and Engineering, Physics Minor Honors: Cum Laude, Schreyer Honors College, Keramos Honorary Fraternity	May 2015

## RESEARCH & TEACHING EXPERIENCE

<b>Northwestern University</b> , Evanston, IL <i>Graduate Research Assistant, Department of Materials Science and Engineering</i> <ul style="list-style-type: none"><li>Collaborated in an interdisciplinary center spanning 8 research groups at 3 universities across 4 disciplines to publish advances in transparent electronic semiconductors</li><li>Coordinated grant review presentation development and served as a liaison with lead investigators</li><li>Developed novel technique to characterize point defects in amorphous thin films using high-temperature, <i>in situ</i> electrical property measurement</li></ul>	September 2015–Present
<b>Science and Engineering Research and Teaching Synthesis</b> , Evanston, IL <i>Workshop Organizer, Spring 2020</i> <ul style="list-style-type: none"><li>Developed immersive, hands-on experiments to demonstrate process and importance of university-level research</li><li>Supervised 18 students in group activities and taught basic research methods and techniques</li></ul> <i>Student Coordinator, Spring 2018</i> <ul style="list-style-type: none"><li>Rapidly ascertained the essentials of workshop organizers' research areas to devise custom teaching methods and demos</li><li>Utilized online forms enhancing the scheduling of 85 students into 15 workshop sessions over 3 weeks</li></ul>	March 2016–June 2020

## LEADERSHIP EXPERIENCE

<b>Ready, Set, Go: A Course in Scientific Communication</b> , Evanston, IL <i>Co-Founder, Program Administrator</i> <ul style="list-style-type: none"><li>Authored grant for \$10,000 to pilot a yearlong workshop for graduate student researchers</li><li>Coordinated professionals in theater, journalism, and communication to design intensive 10-week workshop</li><li>Designed and maintained a course website to promote the achievements of workshop fellows</li><li>Analyzed program feedback using web-based forms and presented to a board of graduate school deans</li></ul>	January 2020–Present
<b>Engelhart Hall</b> , Evanston, IL Resident Assistant, 2016–2018; Senior Resident Assistant, 2018–2020 <ul style="list-style-type: none"><li>Facilitated weekly meetings for a staff of 4 graduate students to plan events and enhance community development</li><li>Reviewed, selected, and trained candidates for a community assistant position</li><li>Planned 30 events over 4 years for a community of 300 residents on budget of \$8,000 per year</li><li>Implemented online duty log to track staff efforts, improving consistency of response and scheduling decisions</li><li>Enhanced Engelhart's social network presence, contributed to improving event awareness and attendance by 50%</li></ul>	August 2016–June 2020

## PREVIOUS EXPERIENCE

<b>Apple Retail</b> , Norfolk, VA <i>Apple Specialist</i> <ul style="list-style-type: none"><li>Engaged customers in friendly conversation to assess needs and provide the optimal solution for their budget</li><li>Earned Apple Product Professional Gold-Level Certification for product knowledge</li></ul>	June 2013–August 2015
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## HONORS & AWARDS

MGLC Art Fair Winner, Photography	2018, 2020
Walter P. Murphy Fellowship (awarded to outstanding first-year Ph.D. students)	2015

## MATERIALS SYNTHESIS & CHARACTERIZATION TECHNIQUES

SEM, XRD, ToF-SIMS, XPS, Profilometry, Ellipsometry, Hall Probe, UV-VIS Spectrophotometry, Solid state synthesis, PLD

## COMPUTER SKILLS

**Proficient**  
Apple Keynote, Adobe Illustrator, Adobe InDesign, Adobe Photoshop, Adobe Muse, MS Excel, MS Word, MS PowerPoint  
**Intermediate**  
Adobe Premiere, Adobe Dreamweaver, SketchUp, LabVIEW, Wolfram Mathematica 8