

# AMANDA P. SICILIANO, EIT

Amandapsiciliano.com

Amandapsiciliano@gmail.com | linkedin.com/in/apsiciliano

## EDUCATION

- University of Maryland**, College Park, MD *Aug. 2020 – Present*  
Ph.D., Materials Science & Engineering
- Wentworth Institute of Technology**, Boston, MA *Sep. 2016 – Aug. 2020*  
B.S., Civil Engineering  
Graduated Magna Cum Laude
- John Cabot University**, Rome, Italy *May – Aug. 2018*  
Study Abroad – Non-Degree Seeking

## RESEARCH

- The Incorporation of Plastics in Asphalt: A Review***, Professors G. Das & H. Jafferji *Jun. 2019*
- Researched global plastic production and evolving uses of plastic to improve asphalt performance
  - Presented at 7<sup>th</sup> International Conference on Bituminous Mixtures and Pavements
- The Effects of Recycled Additives in Concrete***, Professor A. Kamat *Feb. – Apr. 2018*
- Performed ASTM testing to investigate effects of improving sustainability of concrete mixtures
  - Presented at Muddy River and Colleges of Fenway research symposiums

## CONFERENCE PROCEEDINGS

**Siciliano, A.P.**, Das, G.P., & Jafferji, H. (2019). The Incorporation of Plastics in Asphalt: A Review. *Bituminous Mixtures & Pavements VII* (Poster). *7<sup>th</sup> International Conference on Bituminous Mixtures and Pavements* in Thessaloniki, Greece from 12 June – 14 June 2019.

## HONORS & AWARDS

- Student Speaker**, WIT Rescheduled Commencement *Aug. 2021*
- Selected among class of 1,000+ students to deliver commencement address
- Dean's List**, WIT Annual Awards *Aug. 2020 – Sep. 2016*
- Maintained a GPA of 3.50 or better for 7/8 academic semesters
- First Place**, Daniel W. Mead Paper Competition *Apr. 2019*
- Researched the importance of diversity and inclusion in the civil engineering industry
  - Presented findings at American Society of Civil Engineers (ASCE) New England Competition
- Second Place**, Concrete Canoe Competition Oral Presentation *Apr. 2018*
- Developed presentation to show project management, design, construction of concrete canoe
  - Presented at the ASCE Concrete Canoe New England Regional and San Diego National Competitions
- Gold Award**, Girl Scouts of the USA *Mar. 2016*
- Created annual science fair for sixth grade students to encourage STEM principles
  - Worked directly with 95 students to provide education about the scientific method

## GRANTS & SCHOLARSHIPS

- Dean's Fellowship**, UMD Materials Science & Engineering *Aug. 2021 – Aug. 2020*
- One year of full tuition and research stipend offered by UMD Graduate School

- Scholarship**, SWANA Southern New England *Jul. 2021, 2020, 2019*
- Southern New England chapter award for environmentally and economically sound practice of solid waste
- Merit Scholarship**, WIT Financial Aid Office *Sep. 2016 – Aug. 2020*
- Four year undergraduate scholarship for maintaining a minimal 2.5 cumulative GPA
- Scholarship**, National Association of Women in Construction *Jun. 2019, 2017*
- Boston chapter award for enhancing the success of women in construction industry
- Professional Development Grant**, WIT Center for Student Engagement *Apr. 2019*
- John P. Heinstadt Grant for providing students with ability to take advantage of career opportunities
- Scholarship**, WIT Endowment Fund *Sep. 2018*
- Commodore Builders' scholarship and co-op opportunity for female students in STEM field

## **EMPLOYMENT**

- Graduate Research Assistantship**, UMD Materials Science & Engineering Department *Aug. 2020 – Present*
- Working in Dr. Mohamad Al-Sheikhly's Laboratory for Radiation and Polymer Science
  - Conducting research on HVAC systems, irradiated polymers, novel polyelectrolyte membranes
- Peer Tutor**, WIT Center for Academic Excellence *May 2019 – Aug. 2020*
- Guided university students in learning across 6 different departments
  - Specialized in assisting continuing education students with computer software (AutoCAD, Autodesk Revit)
- Technical Intern**, Simpson, Gumpertz & Heger *Sept. – Dec. 2019*
- Assisted consultants in testing to determine cause of failure through modified ASTM procedures
  - Developed sampling technique and ran DSC/TGA equipment for 4-month project
- Research Assistant**, WIT Civil Engineering Department *Jan. – May 2019*
- Assisted Dr. Gautham Das in environmental engineering research on waste mitigation
  - Designed preliminary test procedures and obtained initial results via FTIR
- Teacher's Assistant**, WIT Mathematics Department *Jan. – Apr. 2018*
- Enhanced learning of 32 engineering students in Differential Equations course
  - Developed supplementary study guide material and hosted 4 exam review sessions
- Intern**, Turner Construction Company *Jun. – Aug. 2017*
- Supported Project Executive and Field Engineers throughout construction schedule
  - Prepared and edited change orders, budget reports, daily evaluations, and progress photos

## **LEADERSHIP & EXTRACURRICULARS**

- Executive Board Member**, UMD Engineering Graduate Student Society *May 2021 – Present*
- Serve as Materials Science & Engineering Department representative
- Director of Events & Engagement**, WIT Student Alumni Society *Sep. 2019 – Aug. 2020*
- Organized social/professional events and led 60+ students to engage with current and future alumni
- Senior Resident Assistant**, WIT Office of Housing & Residential Life *Aug. 2019 – Aug. 2020*
- Supervised team of 11 Resident Assistants and 500+ student residents in upper-class residence halls
- President**, WIT Civil Engineering Honors Society *Jul. 2019 – Aug. 2020*
- Top 1/3 of civil engineering class selected on principles of scholarship, character, and practicality
  - Ran monthly meetings among 10 members in discussing future growth, department support and events
- Parliamentarian**, WIT Phi Sigma Pi National Honors Fraternity *Sep. 2018 – Aug. 2020*
- Tracked attendance of 75 members and upheld meetings according to Robert's Rules of Order

**Concrete Canoe Co-Captain**, WIT American Society of Civil Engineers

*Sep. 2017 – Apr. 2019*

- Led materials research, mix development and concrete design for 30 person concrete canoe team

**PROFESSIONAL MEMBERSHIPS**

Solid Waste Association of North America

*Jan. 2019 – Present*

Phi Sigma Pi National Honors Fraternity

*Feb. 2018 – Present*

American Society of Civil Engineers

*Sep. 2016 – Present*

Girl Scouts of the USA

*Sep. 2002 – Present*

**SKILLS & CERTIFICATIONS**

Material characterization (*DSC, TGA, FTIR*) and concrete testing (*ASTM*)

Autodesk AutoCAD, Autodesk Civil 3D Imperial, Autodesk Revit, STAAD, RISA-2D

Microsoft Office, Bluebeam Revu, Adobe Acrobat, Adobe Photoshop

OSHA 10-hour, OSHA 30-hour, CMAA CMIT, NCEES EIT