

# JOSEPHINE CARLOZZI

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Permanent Address  
707 Abbey Road  
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Current Address  
325349 Georgia Tech Station  
350 Ferst Drive  
Atlanta, GA 30332

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## OBJECTIVE

Seeking an undergraduate research position for the 2019-2020 academic year, starting in Fall 2019

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## EDUCATION

**Georgia Institute of Technology**, May 2020

**Major:** Bachelor of Science in Materials Science and Engineering

**Concentration:** Biomaterials

**Cumulative GPA:** 4.0/4.0; Grand Challenges Program; Rotary Club Scholar

**Study Abroad:** Barcelona Autonomous University Fall 2017

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## RELEVANT COURSEWORK

Characterization of Materials; Chemical Thermodynamics of Materials; Transport Phenomena; Survey of Organic Chemistry; Structural Transformations in Metallic and Ceramic Materials; Mechanical Behavior of Materials; Electronic, Optical and Magnetic Properties of Materials; Statistics and Numerical Methods; Polymer Science and Engineering; Introduction to Object-Oriented Programming; Introduction to Engineering Graphics

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## RELEVANT EXPERIENCE

**University of Delaware, Graduate Dept of Materials Science and Engineering, Anderson Janotti, PhD**

*Research Assistant*, Summers 2017, 2018

- Investigated the mechanical and electronic properties of semiconducting materials through examination of existing literature and computer modeling and analysis, in collaboration with a research team
- Performed computational simulations of organic semiconductors, using quantum mechanics-based methods
- Prepared presentations and data analyses to report results and train graduate lab team in computer simulation method (DFTB) and its application

**Engineers Without Borders, Georgia Tech Chapter**

*Marketing Lead and Communications Committee*, Spring 2017 – Present

- Interact with donors and community in Nicaragua and update social media accounts to keep members and donors informed.
- Work with project team to design and develop alternative, clean cooking/heating methods to underserved populations currently using stoves that contribute to respiratory health problems.

**Georgia Tech AssisTech**

*Executive Director of Communications*, Spring 2018 – Present

- Responsible for recruiting and communicating with club members, clients, and donors through event planning, marketing, and social media.
- Help project teams design and fabricate pediatric assistive and rehabilitative devices, specifically IR switch soldering and additive manufacturing repairs, for clients, under the motto "Make Something that Means Something."

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## PROJECTS

**Grand Challenges Living Learning Community, Georgia Institute of Technology**

*Reading TECHniques Team and Program Ambassador*, 2016 - 2017

- Research Project: How might we improve literacy skills among low-income children in the urban United States?
- Gained hands-on problem-solving experience outside of the classroom and at a shelter-based after school program in the process of investigating and designing a solution to this question.

**3D Printed Part Project, Introduction to Engineering Graphics**, Fall 2018

- Progressed through the design process from sketching to manufacturing, taking into account tolerances and the limitations of selective laser sintering and additive manufacturing to 3D print a set of small interlocking parts.

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## SKILLS

**Instrumentation & Machinery:** 3D Printing; soldering; Characterization: XRD, optical microscope, SEM; Mechanical Testing: Instron tensile testing, Charpy impact testing, Vickers hardness testing; Sample Preparation: mounting, polishing

**Computer Languages:** MATLAB, Java, Python

**Software:** MS Office, SolidWorks, Materials Studio

**Languages:** Proficient in Spanish

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## OTHER EXPERIENCE & ACTIVITIES

**Georgia Tech Swim Club**, National Competition Team Member, 2016 - Present

*Team Registration Committee for Collegiate Club Swimming National Championship*, 2017 – 2018

**Brandywine Brewing Company**, Server and Hostess, 2017

**Westminster Swim Club**, Assistant Swim Coach and Lifeguard, 2013 - 2016