

Braden Li

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Education

Ph.D. Fiber and Polymer Science **Anticipated May 2021**
North Carolina State University, Raleigh, NC

B.S. Materials Science and Engineering **May 2017**
University of Florida, Gainesville, FL
Minor: Sales Engineering
GPA: 3.47/4.0, Magna Cum Laude

Experience

University of Florida, Undergraduate Research Assistant **August 2016 – May 2017**

- Developed novel biodegradable fibers for drug delivery applications.
- Fibers were created by electrospinning Poly(ethylene glycol) diacrylate functionalized with a peptide sequence to incorporate an enzyme degradable peptide bond into the polymer backbone.
- Fibers were characterized using SEM and FTIR to confirm the desired morphology and chemical structure respectively.

University of Florida Cross Country and Track & Field, Student Manager **August 2013 – May 2017**

- Assisted UF coaches through the set-up and administration of practices.
- Managed and oversaw over 30 athletes.
- Ensured athletes' satisfaction in a continuous fast paced and competitive environment.

Medtronic, New Product Development Quality Engineer Intern **May 2016 – August 2016**
Jacksonville, FL

- Conducted degradation, rheology, and anti-bacterial feasibility studies on nasal stenting products.
- Supported Design Validation by analyzing complaint history data to address potential user errors.
- Designed new test fixtures using Solidworks to improve resistor bending manufacturing process.

Medtronic, Sustaining Quality Engineer Intern **August 2015 – December 2015**
Jacksonville, FL

- Learned and implemented lean manufacturing operations and 5S initiatives to improve current manufacturing lines.
 - Tested, analyzed, and validated new equipment to be implemented for manufacturing operations.
 - Wrote and review protocols for Installation, Operational, and Process Qualifications.
 - Performed statistical analysis using Minitab to qualify new products and equipment for manufacturing.
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Leadership

Vice President, Mu Sigma Epsilon, University of Florida **January 2016 – May 2017**

- Coordinated with 8 other executive members to plan social and professional events.
 - Responsible for creating recruiting events to attract new member.
 - Recruited over 100 new members by reaching out to undergraduate and graduate level students.
 - Administered weekly emails to update members on club and college wide events.
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Awards and Affiliations

North Carolina State University Provost Doctoral Fellowship **August 2017 – Present**
National GEM Consortium Associate Fellowship **August 2017 – Present**

Skills

Certifications: Solidworks Associate (CWSA), Minitab Trainer

Computational: Solidworks, MatLab, Minitab, LabView

Characterization: Scanning Electron Microscopy, FTIR, DSC, Rheology, Mechanical Testing

Languages: Cantonese, Spanish