

# Brandon Simpson

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222 Mynders Ave Apt 2 Memphis, TN 38111

(901) 678-3322

## EDUCATION

### **Bachelor of Science in Biomedical Engineering**

University of Memphis, Memphis, TN

GPA: 3.0

Expected Graduation Date: May 2019

## SKILLS

**Programming Languages:** MATLAB, SigmaPlot, Microsoft Office Suite

**Laboratory Tools:** High Pressure Liquid Chromatography (HPLC), Medical imaging, Luminescence assays, Statistical analysis, LabVIEW, Hydrothermal

## RESEARCH

### **Undergraduate Research Assistant**, Apr 2016 - Present

*Department of Biomedical Engineering University of Memphis, Memphis, TN*

- Perform zone of inhibition studies and turbidity studies for local companies
- Utilize aseptic technique when culturing cells for cytocompatibility
- Complete assays to measure results such as cell-titer glo, and bac-titer glo.
- Verify the viability of microbeads in cancerous fibroblast

## ABSTRACTS & PUBLICATIONS

Barr, B., Awais R, and Jennings JA. *Comparative antimicrobial activity of commercially available wound care sprays* in Annual American Veterinary Medical Association Convention. 2017. Indianapolis, IN.

Barr, B. and Jennings JA. *Cytocompatibility study of magnetic nanoparticle loaded chitosan-PEG beads in cancerous fibroblasts* in National Conference for Undergraduate Research. 2017. Memphis, TN.

Harris M, Ahmed H, Barr B., Mohapatra A, LeVine D, Pace L, Morshed B, Bumgardner J, and Jennings JA. Magnetic Stimuli-Responsive Chitosan-based Drug Delivery Bio composite for Multiple Triggered Release. *International Journal of Biological Macromolecules* (2017).

## EXPERIENCE

### **STEM Ambassador**, Aug 2017 – Present

*West Tennessee Stem Hub, Memphis, TN*

- Communicates with SCS teachers to distribute STEM related activities
- Impact kids by chaperoning STEM activities at various high schools

### **Associate Coordinator**, Oct 2016 – Aug 2017

*(CRISTAL) Center for Research in STEM Teaching and Learning Memphis, TN*

- Managed the distribution of 15 financial opportunities to 13 STEM organizations
- Created academic incentives for 15 STEM organizations
- Worked with fellow coordinators to plan and host events for students in the STEM field

## LEADERSHIP

### **Undergraduate Teachers Assistant**, Aug 2017 – Present

**Treasurer**, Society for Women Engineers, May 2017 – Present

**Secretary and Finance Chair**, National Society of Black Engineers Jul 16 – Jul 17

**Liaison**, Ambassador Biomedical Engineering Society/Society for Biomaterials, Aug 2016 – Present

**Engineering Mentor**, Student Success Program, Aug 2015 – Present