

**CURRICULUM VITAE****PERSONAL DATA**

Name: Sarah Corinne Rowlinson  
 Address: J. Crayton Pruitt Family Department of Biomedical Engineering  
 University of Florida  
 1275 Center Drive, Biomedical Sciences Building, Room 299  
 Gainesville, FL 32610  
 Telephone: office (352) 273-9333  
 fax (352) 273-9221  
 E-Mail: [Sarah.Rowlinson@bme.ufl.edu](mailto:Sarah.Rowlinson@bme.ufl.edu)

**EDUCATION**

High School: Wellington Community High School, Wellington FL  
 Undergraduate: University of Miami, Coral Gables FL  
 B.S. Biomedical Engineering *Magna Cum Laude*  
 Graduate: Clemson University, Clemson SC  
 Ph.D. Bioengineering

**ACADEMIC POSITIONS**

Lecturer, J. Crayton Pruitt Family Dept. of Biomedical Engineering, University of Florida, July 2017 –  
 Teacher of Record, General Engineering, Clemson University, Spring 2017  
 Graduate Teaching Assistant, General Engineering, Clemson University, Fall 2015 – Fall 2016  
 Graduate Research Assistant, Bioengineering, Clemson University, Fall 2012 – Spring 2017

**TEACHING ACTIVITIES**

Fall 2017 Introduction to Biomedical Engineering (BME 1008), Introduction to Engineering  
 (EGS 1006), Cellular Engineering Laboratory (BME 3323L)  
 Spring 2017 Engineering Graphics and Machine Design (ENGR 2080)  
 Fall 2016 Engineering Fundamentals in Excel (ENGR 1520)  
 Spring 2016 Fundamentals of Engineering (ENGR 1510), and Engineering Fundamentals in  
 Matlab (ENGR 1630)

**HONORS AND AWARDS**

|  |             |
|--|-------------|
| Clemson University Outstanding Woman Award, Commission on the Status of Women      | 2016        |
| Alpha Epsilon Lambda, the Top 1% Graduate Student Honor Society                    | 2015        |
| Omicron Delta Kappa, the National Leadership Honor Society                         | 2014        |
| Tau Beta Pi, the National Engineering Honor Society                                | 2011        |
| Alpha Eta Mu Beta, the Biomedical Engineering Honor Society                        | 2010        |
| Alpha Lambda Delta, the National Honor Society                                     | 2009        |
| Four-time recipient of the Clemson University Professional Enrichment Travel Grant | 2014 – 2016 |

**PROFESSIONAL SOCIETIES**

|   |        |
|---|--------|
| Society for Biomaterials (SFB)                    | 2016 – |
| * Education Special Interest Group Forum Reporter |        |
| American Society for Engineering Education (ASEE) | 2015 – |
| Biomedical Engineering Society (BMES)             | 2010 – |

**PROFESSIONAL DEVELOPMENT**

|   |           |
|---|-----------|
| University of Florida First Year Faculty Teaching Academy | Fall 2017 |
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**INVITED PUBLICATIONS**

1. Rowlinson S, Burg T, Burg K, "Introducing Students to the Customer Discovery Process to Evaluate and Better Formulate Intellectual Property," *Technology and Innovation: Journal of the National Academy of Inventors*, in review

**PUBLICATIONS**

1. Rowlinson S, Horton O, Burg K, "A Fused Research and Mentoring Methodology for Improved Critical Thinking Skills and Persistence of Underrepresented Students in STEM," *in progress*
2. Rowlinson S, Stephan B, Maier J, "Linking Clemson University General Engineering and South Carolina Public High Schools," *American Society for Engineering Education*, 2017
3. Rowlinson S, Burg K, "Inspired by Real Science: Biomedical Engineering for Breast Cancer Research in the Classroom," *Science Scope*, December 2014

**INVITED PRESENTATIONS**

1. Unleash Your Inner Tiger: The Innovation of You, Clemson University Conference. "Challenges are a workout. Flex your collaboration and leadership muscles!", April 2016
2. SUNY STEM Conference, Building Pathways and Partnerships in STEM for a Global NY. "Scaling up an Education Innovation in a Sustainable Manner: An NSF I-Corps L Experience", October 2015

**CONFERENCE PROCEEDINGS**

1. Rowlinson, Bridges W, Burg K, "Novel Analysis of in Vitro Breast Tissue Test System," *Society for Biomaterials Annual Meeting*, Minneapolis MN, 2017
2. Rowlinson S, Burg T, Burg K, "Executing a Business Start-Up Model to Refine Biomedical Engineering Training Tools," *Biomedical Engineering Society Annual Meeting*, Minneapolis MN, 2016
3. Rowlinson S, Kwist K, Burg K, "Ex vivo Tissue Test Systems: Novel Layered Scaffold Design Offers Unique Analysis," *Biomedical Engineering Society Annual Meeting*, San Antonio TX, 2014
4. Rowlinson S, Bridges W, Burg K, "Breast Tissue Engineering Module for Girl Scout STEM Career Enrichment Event," *Biomedical Engineering Society Annual Meeting*, San Antonio TX, 2014

5. Rowlinson S, Ye G, Auguste D, "Fabrication of Stiffness Variant Thin Layer Substrate Using Nanotopography Backbone for Cell Sensing," *Biomedical Engineering Society Annual Meeting*, Hartford CT, 2011
6. Rowlinson S, Guyette J, Shaw S, Sood D, Minn K, DeMartino A, Choate B, Kazanovicz A, Rolle M, Pins, Gaudette G, "Biological Sutures for Cell Delivery to the Heart: Assessment of Delivery Scaffold," *Biomedical Engineering Society Annual Meeting*, Austin TX, 2010

#### **COLLEGE AND UNIVERSITY COMMITTEES**

Member, UF Student Conduct Committee, Fall 2017 –

Member, UF BME Undergraduate Studies Committee, Summer 2017 –

Member, UF BME Research Committee, Summer 2017 –

Member, Clemson University 2020Forward Phase 2 Strategic Planning Committee, Spring 2015

#### **OUTREACH**

Alachua County Science Fair Judge, Bishop Middle School, November 16 2017

Invited Speaker, BMES Student Chapter General Body Meeting, October 25 2017

First Generation Advocate Program, First Generation Student Support – Division of Student Affairs

Gator Outreach Initiative, Gator Engineering Mentorship Program – HWCOE

Oct 10, 2017: Cell lab tour and activity (1.5 hrs) for 25 HS students (~sophomores)

#### **GRANT SUPPORT**

1. Procter and Gamble, Higher Education Grant - *Pending*
2. National Science Foundation, Innovation Corps for Learning (No. 1547417), 6/1/2015 – 8/1/15, \$50,000. "A Commercial Approach to Distribute Fused Research-Mentoring Modules" (Role: Entrepreneurial Lead)

#### **TEACHING MENTEES**

Angelie Rivera-Rodriguez, University of Florida – PhD Candidate

Adam Grippin, University of Florida – PhD Candidate

#### **RESEARCH MENTEES**

Scott Cole, Clemson University – B.S. Bioengineering, current PhD Candidate and NSF GRFP Recipient at UCSD

Mark Allen, Clemson University – Mechanical Engineering

Terrance Harris, Clemson University – Computer Engineering

Brodie Davila, Clemson University – Bioengineering

Quinton Gilliard, Clemson University – Computer Engineering

Brian Golz, Clemson University – Bioengineering

Austin Schlirf, Clemson University – Bioengineering

Clayton Compton, Clemson University – Bioengineering

Shannon Wood, Clemson University – Bioengineering

Jhordan Jenkins, Clemson University – Bioengineering  
Teirra Holloman, Clemson University – Industrial Engineering  
Courtney Davis, Clemson University – Electrical Engineering  
Roslie Shumate, Clemson University – Industrial Engineering  
Michael Cortes, Clemson University – Mechanical Engineering  
Sean Collins, Clemson University – Bioengineering  
Jaquanas Grant, Clemson University – Industrial Engineering  
Kaitlin Klotz, University of North Carolina at Charlotte – Biology  
Chika Igba, University of North Carolina at Charlotte Biology  
Harrison Smallwood, Clemson University – Bioengineering  
Jonnise Macomson, Clemson University – Microbiology