|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BIOGRAPHICAL SKETCH | | | | |
|  | | | | |
| NAME  Braveboy-Wagner, Justin | | POSITION TITLE  Graduate Student (PhD Candidate) | | |
| eRA COMMONS USER NAME (credential, e.g., agency login) | |
| EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)* | | | | |
| INSTITUTION AND LOCATION | DEGREE  *(if applicable)* | | YEAR(s) | FIELD OF STUDY |
| Worcester Polytechnic Institute, Worcester, MA Worcester Polytechnic Institute, Worcester, MA | B.S B.S | | Aug 2005 Aug 2005 | Biomedical Engineering  International Studies |
| University of North Carolina UNC, Chapel Hill, NC Georgetown University School of Continuing Studies (SCS), Washington DC | M.S | | Dec 2009 Dec 2013 | Biomedical Engineering Project Management Certification |
|  |  | |  |  |
| Temple University | PhD | | 2014 -- | Bioengineering |
|  |  | |  |  |

**A. Personal statement.**

I have been educated and experienced as a Biomedical Engineer since the early 2000s and am currently a doctoral candidate in Temple University’s Bioengineering Department. Nine years of academic graduate-level laboratory experience have left me with an amalgamated skillset including a particular focus on cell culture, pharmaceutical/drug assay, metabolic characterization, PCR and gene expression, PDA (photodiode array) and mass spectrometry, microgravity bioreactor cell culture and assay, project management (including PMI certification), and 3D printing and modeling.

**B. Positions and Honors.**

2007-2009 Research/Lab Assistant, University of North Carolina, UNC, Chapel Hill, NC

2010-2012 Consultant & Project Director, Dental Implants, Contact Lenses, TWG Inc.

2014 --- (Graduate) Temple University, Department of Bioengineering, Philadelphia, PA.

2019-2020 (Adjunct) Temple University, Department of Bioengineering, Philadelphia, PA.

• National Merit Award for academic excellence

• Deans Fellowship for academic excellence

• Thurgood Marshall Award for academic excellence

**C. Selected peer-reviewed publications and abstracts**

“Design of an In-Vitro Model System for Evaluating the Degradation of Collagen Sponges Using Nuclear MRI.” WPI, 2005, 26. Thesis Project - B.S: Worcester Polytechnic Institute

1. "A Study of the Continued Viability of NATO: Military and Cultural Aspects." WPI, 2003. Thesis - for completion of Humanities Requirement in advance of degree application
2. "Science and Technology and the Dilemmas of Sustainable Development: The Caribbean." WPI, 2005, 40. Thesis Project - B.S: Worcester Polytechnic Institute
3. "Proteomic Arrays and Microdevices: a Research Review." 2008, 28. Research Project for Submission - M.S: University of Chapel Hill, NC

“Metabolic Effects of Rosiglitazone and Pioglitazone on Complex I and Complex II Respiration in Isolated Rat Mitochondria.” ProQuest/UMI, 2010, 30. Thesis Project - M.S: University of Chapel Hill, NC

1. “Inhibition of Osteogenic Differentiation in Simulated Partial Gravity: Mitigation by Phytonutrients” BMES 2019
2. “Mineralization and Cytoskeletal Dysfunction of Osteoblasts under Varied Simulated Partial Gravity Conditions” PhD Proposal Defense, October 2019