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| BIOGRAPHICAL SKETCH |
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| NAMEBraveboy-Wagner, Justin | POSITION TITLEGraduate 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, MAWorcester Polytechnic Institute, Worcester, MA | B.SB.S | Aug 2005Aug 2005 | Biomedical EngineeringInternational Studies |
| University of North Carolina UNC, Chapel Hill, NCGeorgetown University School of Continuing Studies (SCS), Washington DC | M.S | Dec 2009Dec 2013 | Biomedical EngineeringProject Management Certification |
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| Temple University | PhD | 2014 -- | Bioengineering |
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**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