**David V.P. Sanchez, Ph.D.**

**A. PROFESSIONAL PREPARATION:**

University of Portland Portland OR Civil Engineering B.S., 2006

University of Pittsburgh Pittsburgh PA Civil Eng. (Constr. Mgmt.) M.S. 2010

University of Pittsburgh Pittsburgh PA Civil & Environ. Engr. Ph.D. 2014

**B. APPOINTMENTS:**

2015- Present Assistant Director, Mascaro Center for Sustainable Innovation, University of
Pittsburgh, Pittsburgh PA

2015- Present Assistant Professor, Dept. of Civil & Environmental Engineering, University of Pittsburgh, Pittsburgh PA

2014-2015 Visiting Research Assistant Professor, Dept. of Civil & Environmental Engineering, University of Pittsburgh, Pittsburgh PA

2013-2014 Lecturer, Dept.of Engineering, Robert Morris University, Moon Township,PA

2010-2013 National Science Foundation Graduate Research Fellow

2008-2013 Alfred P. Sloan Scholar (Sloan Foundation)

2007-2010 National Science Foundation IGERT Trainee

**C. PRODUCTS:**

**(i) Products Most Closely Related to the Program**

1. **Sanchez,D.V.P.**, Jacobs, D.L., Huang, J. Vidic, R.D., Yun,M.I., *Understanding the Effects of Electrode Morphology on Biofilm-electrode Performance by Shewanella Oneidensis MR-1,*  ***Energies***2015**,** 8, (3), 1817-1829
2. Klonicki, E.F., **Sanchez,D.V.P**., *Evaluation of low-cost carbon-felt based microbial fuel cells with undiluted manure for remote charging applications* ***Engineering Sustainability: The Triple Bottom Line*** Pittsburgh PA April 2017
3. **Sanchez,D.V.P.**, Huynh, P.,Kozlov, M., Baughman, R.H.,Vidic, R.D., Yun,M.I., *Carbon Nanotube/Platinum (Pt) Sheet as an Improved Cathode for Microbial Fuel Cells,* ***Energy and Fuels****, 2010, 24* (11), 5897-5902 **DOI:** 10.1021/ef100825h
4. Park, H.I., **Sanchez,D.P.**, Cho, S.K., Yun, M., *Bacterial communities based on Pt-deposited electrodes using electron-beam deposition in mediator-less microbial fuel cell*, ***Environmental Science and Technology*** (2008), 42(16), 6243-6249.
5. Dai, J., Guo, D., Zou, F., **Sanchez,D.V.P**., *Fabricating a Sustainable Electrode for Microbial Fuel Cells using Bamboo Charcoal and Polyaniline* ***Engineering Sustainability: The Triple Bottom Line Pittsburgh PA*** April 2015

**(ii) OTHER PRODUCTS**

1. Liu, P, Huang, J., **Sanchez,D.V.P.**, Schwartzmann, D., Lee, S.I., Yun, M.I., *High Yield Two-dimensional (2-D) Polyaniline Layer and Its Application in Detection of B-type Natriuretic Peptide in Human Serum,* ***Sensors and Actuators B: Chemical***, 2016, 230, 184-190
2. Nguyen, X., **Sanchez,D.V.P.** et al *Diffusion-Limited Reduction of Organometallic compound on Carbon Nanofiber Mat for Catalytic Applications*,***J. Mater. Chem.***, 2010, **20**, 5468 - 5473, **DOI:** 10.1039/c000654h
3. Dickerson, S.J., Jacobs, S.P., Garcia A.M., **Sanchez, David V.P**., *Joint Assessment and Evaluation of Senior Design Projects by Faculty and Industry,* ***Frontiers In Education,*** *2016*
4. Arjmand, S., **Sanchez,D.V.P.**, Budny, D. *Adding an International Senior Design
Component into the Civil Curriculum,* ***ASEE Annual Conference proceedings****, June 2015*
5. Kerzmann, T., **Sanchez,D.V.P**., Bach, J., Walker, J., 2015, “*Energy Week: Outreach Events Geared Toward High School and Middle School Students*,” ASEE Middle Atlantic Conference proceedings 2015

**D. SYNERGISTIC ACTIVITIES:**

1. Dr. Sanchez and his team were 1 of 24 exhibitors nationwide to be nominated, selected and invited to present at President Obama’s White House Frontiers Conference in 2016. We presented our work on Energy in the Global Frontiers Track.
2. Dr. Sanchez served on the Technical Advisory Group review for the Bill and Melinda Gates foundation’s *Reinvent the Toilet* program in May of this year.
3. Dr. Sanchez serves as a reviewer for: *NSF, Environmental Science and Technology, Energies, Water Research, Energy and Fuels, ACS Nano, PloS One*
4. Dr. Sanchez is actively involved in mentoring K-12 students from under-represented populations in STEM fields (Pacific Islanders, Hispanic students, African-American students) both on the Pacific Island of Guam and in the city of Pittsburgh. Last year he interacted directly with over 300 students in various programs (Investing Now, OPDC School 2 Work program, Carnegie Boys and Girls Club etc.) and was awarded the Faculty Diversity Award by the Swanson School of Engineering.
5. He is the Program Director for the Master’s in Sustainable Engineering in the Mascaro Center for Sustainable Innovation. In addition to his role he coordinates the “Teach the Teacher” program, a Green Week at Manchester Academic Charter School for 75 middle school students. He serves as an advisor for Community-Based Research Fellowships, is the Faculty nominator for the University Innovation Fellows and the Faculty Director for the Design EXPO which showcases about 90 design projects and 400 students from multiple disciplines every semester.