



Brandon Marcellino Reynante

Ph.D. Student in Education, admitted Autumn 2018

Bio

BIO

I'm a doctoral candidate and Stanford Interdisciplinary Graduate Fellow in the Learning Sciences and Technology Design (LSTD) and Developmental and Psychological Sciences (DAPS) programs at Stanford University. My research interests focus on designing and studying community-engaged learning experiences and technologies that empower people to create systemic societal change toward more just and sustainable futures. Prior to Stanford I was a Lecturer in Humanitarian Engineering at UC San Diego and a Project Engineer at an engineering firm where I performed and managed the design of renewable energy technologies, spacecraft, and theme park rides. I earned a B.S. in Mechanical Engineering from UC San Diego and an S.M. in Aerospace Engineering from MIT.

HONORS AND AWARDS

- Stanford Interdisciplinary Graduate Fellowship (SIGF), Stanford University (2020-2023)
- Graduate Public Service (GPS) Fellowship, Stanford University (2019-2020)
- Outstanding Professor Award, UC San Diego (2015)
- Graduate Research Fellowship, National Science Foundation (2009-2011)
- Undergraduate Engineering Leadership Award, UC San Diego (2009)
- Chancellor's Research Scholarship, UC San Diego (2008)
- Elected Member, Phi Beta Kappa (honor society) (2008)
- Elected Member, Tau Beta Pi (engineering honor society) (2007)

EDUCATION AND CERTIFICATIONS

- Professional Engineer (P.E.), State of California , Mechanical Engineering (2014)
- Master of Science (S.M.), Massachusetts Institute of Technology , Aerospace Engineering (2011)
- Bachelor of Science (B.S.), University of California, San Diego , Mechanical Engineering (2009)

SERVICE, VOLUNTEER, AND COMMUNITY WORK

- Faculty Advisor, Engineers for a Sustainable World (2014 - 2018)
- Faculty Advisor, Engineers Without Borders (2014 - 2018)
- President, Tau Beta Pi (engineering honor society) (2008 - 2009)
- Education Outreach Coordinator, Tau Beta Pi (engineering honor society) (2007 - 2008)

LINKS

- LinkedIn Profile: <https://www.linkedin.com/in/brandonreynante/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dissertation Title: Imagining societal transformations toward just and sustainable climate futures: A participatory design-based research study of an engineering fiction learning experience.

Professional

WORK EXPERIENCE

- Lecturer in Humanitarian Engineering - University of California, San Diego (2014 - 2018)
- Design Engineer and Project Manager - ATA Engineering (2011 - 2015)

Publications

PUBLICATIONS

- **Learning to design for social justice in community-engaged engineering** *JOURNAL OF ENGINEERING EDUCATION*
Reynante, B.
2021
- **Design knowledge and learning pathway of a grassroots innovator** *15th International Conference of the Learning Sciences*
Reynante, B.
International Society of the Learning Sciences.2021: 83-90
- **A framework for open civic design: Integrating public participation, crowdsourcing, and design thinking** *Digital Government: Research and Practice*
Reynante, B., Dow, S. P., Mahyar, N.
2021; 2 (4)
- **Exploring the Promises and Perils of Integrated STEM Through Disciplinary Practices and Epistemologies** *SCIENCE & EDUCATION*
Reynante, B. M., Selbach-Allen, M. E., Pimentel, D. R.
2020
- **Educating change-makers: A framework for sustainable making and activist engineering** *9th Annual Conference on Creativity and Fabrication in Education (FabLearn '19)*
Reichenbach, K., Reynante, B.
ACM Press.2019: 128-131
- **From First- to Third-Order Social Change in Development Engineering: A Case Study**
Reynante, B., Bratton, M., Hein, L., IEEE
IEEE.2017
- **Impact testing of structural biological materials** *MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS*
Lee, S., Novitskaya, E. E., Reynante, B., Vasquez, J., Urbaniak, R., Takahashi, T., Woolley, E., Tombolato, L., Chen, P., McKittrick, J.
2011; 31 (4): 730-39