CORY GLOECKNER cgloeckner@jcu.edu

CURRICULUM VITAE

EDUCATION

University of Minnesota, Minneapolis, Minnesota
Ph.D. Biomedical Engineering, 2011 to 2017
Neuroengineering minor

University of Pretoria, Pretoria, South Africa
Ph.D. Theology, 2017 to 2021

Saint Leo University, Saint Leo, Florida
M.A. Theology, 2015 to 2016

University of Cincinnati, Cincinnati, Ohio
B.S. Chemical Engineering, 2006 to 2011
Mathematics minor

TEACHING EXPERIENCE

John Carroll University, Physics Department, Cleveland, OH
Assistant Professor, August 2022 to present

- Courses taught: Introduction to Engineering EP101, Engineering Physics Projects EP102, Engineering Physics Applications EP235, Computation in Physics and Engineering EP251, Senior Engineering Design I & II EP407 & EP408, General Physics Lab I & II PH125L & PH126L, Physics Lab 1 & II (majors) PH135L & PH136L, and more in the future!
- As an engineering expert in the department, I will help modify the curriculum of the Engineering Physics program.
- The department is seeking ABET accreditation for the Engineering Physics program, and I will be contributing to that effort.

University of Minnesota Duluth, Mechanical &Industrial Engineering Department, Duluth, MN
Assistant Professor, August 2019 to May 2022

- Courses taught: Controls & Kinematics Lab ME3222, Materials Science & Engineering ME2105, Heat Transfer, Thermodynamics, and Fluid Mechanics Laboratory ME4122.
- Based on graduate electrophysiology and signals background and undergraduate materials and CHE background, my course load was focused in signal processing and controls, materials science, and thermodynamics/heat transfer/fluid mechanics.
- Received outstanding student evaluations (5.5/6 or higher) for every class taught (dept. best).
- Received an overall performance review score of “4”, the highest possible score, in every year as a faculty member.
- Received the SCSE college-wide Teaching Award in 2021, my first year at a 100% appointment.

University of Minnesota (Twin Cities), Biomedical Engineering Department, Minneapolis, MN
Instructor, Spring 2018, Spring 2019

- Courses taught: BMEN5413 (Neural Interfacing), which is a graduate/senior undergraduate course in BME.
- Revamped the course, adding new content and updating older content; redid course structure and created new homework assignments/quizzes.
- Received 5.5/6 or higher on all major instructor-related categories on student evaluations.

Teaching Assistant, Spring 2015,

HONORS AND AWARDS

- Invited speaker to International Neuromodulation Society Interim Meeting in Mumbai, India, November 2022.
- University of Minnesota Duluth SCSE college-wide Teaching Award 2021 (annual award for the top teacher in the college.
- Received five Thank-a-Teacher certificates in one year (2021).
- Highlight Talk Competition Winner (twice), *Minnesota Neuromodulation Symposium*, April 2016 and 2017.
- NSF IGERT Fellowship recipient, December 2012 – December 2014
- Interdisciplinary Doctoral Fellowship recipient, September 2015 – September 2016.
- 3rd Place, *Minnesota Neuromodulation Symposium* poster competition, April 2013.
- Clarence I. Rossiter Academic Scholarship recipient.

PUBLICATIONS

- **Gloeckner C**, Smith B, Markovitz C, Lim H. "A new concept for noninvasive tinnitus treatment utilizing multimodal pathways." *IEEE EMBC* 2013.
- **Gloeckner C**, Smith B, Markovitz C, Lim H. "Synchronized body and acoustic stimulation induces auditory plasticity: implications for a noninvasive tinnitus treatment." *IEEE EMBS* 2013.
- **Gloeckner C**, Nocon J, Lim H. "Topographic and widespread auditory modulation of the somatosensory cortex: potential for bimodal sound and body stimulation for pain treatment." *Journal of Neural Engineering* 2022.
- Zitella L, Mohsenian K, Pahwa M, **Gloeckner C**, Johnson M. "Computational modeling of pedunculopontine nucleus deep brain stimulation." *Journal of Neural Engineering*, 2013.
- Markovitz C, Smith B, **Gloeckner C**, Lim H. "Investigating a new neuromodulation treatment for brain disorders using synchronized activation of multimodal pathways." *Nature Scientific Reports*, 2015
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