Tomas Oppenheim, PhD

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Education

2011	Ph.D. BioNano/Engineering, Nanoscience Centre, University of Cambridge
2007	B.S. Mechanical Engineering (Magna Cum Laude), Loyola Marymount University (LMU, Los Angeles), 2007
2006	FE Exam California Passed 2006

Positions and Employment

2014	Lecturer, Department of Mechanical Engineering, California State University Maritime
2015-2021	Assistant Professor, Department of Mechanical Engineering, California State University Maritime
2021-Present	Associate Professor, Department of Mechanical Engineering, California State University Maritime
2016-2023	Research Collaborator, Ganguly Lab (https://www.gangulylab.org/), UC San Francisco
2023-Present	Research Collaborator and Visiting Scholar, Khanna Lab (https://neuralengatberkeley.github.io/), UC Berkeley

CSUM Mechanical Engineering Capstone Design Project Instructor

2016-Present	Supervised ~ 4 to 6 Capstone Design Projects per year, including four prosthetic arm projects related to the present proposal.

Grants For Undergraduate Research

2017-2018	CSUPERB Joint Venture Grant, Development of an IMU Neurosleeve
2024 (Submitted)	R15 NIH, Building a large-scale database of upper limb kinematics for the neurorehabilitation community Research Strategy

Poster and Oral Presentations with Undergraduate/Graduate Students

1. Neumaier D, Trieu A, Oppenheim T, Tu-Chan A, Ganguly K. Development of a Neurosleeve, IGNITE22 (2018).
2. Oppenheim T, Trieu J, Tu-Chan A, Ganguly K. A Three-Dimensional Quantitative Model of Finger and Hand Kinematics During Functional Tasks in Stroke. ASNR Poster Presentation (2018).
3. Schorger K, Oppenheim T. Development of An Affordable Prototype Pneumatic Hand Prosthesis and Control System. Design of Medical Devices Conference (2019).
4. Schorger K, Oppenheim T. Development of An Affordable Prototype Pneumatic Hand Prosthesis and Control System. CSUPERB Biotechnology Symposium (2019).
5. Woohyun Kim, Shivam Chaudhary, Tomas Oppenheim, Preeya Khanna. A paradigm to study the role of contact events in learning and execution of object manipulation behavior. FSN Poster Presentation (Accepted, 2024).

Continuing Education Courses

Laney College	Manual Machining II, CNC Machinng 1 and 2
DeAnza College	Multi-Axis CNC Machining
UC Berkeley Extension	Neuroscience
College of Marin	Computer Organization and Assembly Language
UC Berkeley Extension	Introduction to Machine Learning Using Python
UCSD Extension	Python Programming Fundamentals
UCSD Extension	Intermediate Python
UCSD Extension	Probability and Statistics for Deep Learning
UCSD Extension	Linear Algebra for Machine Learning
UCSD Extension	Introduction to Deep Learning for Computer Vision
Coursera	Neural Networks and Deep Learning
UCSD Extension	HTML and CSS
CSUM Faculty Development	Statistical Learning

(Statistical Learning Faculty Development Course Funded by California Learning Lab Data Science Grand Challenge Grant: Building and Bridging Data Science Opportunities in Solano County, as well as CSUM Faculty Development: https://ds100.org/sp24/)

Complete List of Published Work in MyBibliography:

https://www.ncbi.nlm.nih.gov/myncbi/tomas.oppenheim.1/bibliography/public/

Patents

Mark Welland, Tuomas Knowles, Tomas Oppenheim. Materials based on filamentous peptide - or protein-based structures. International Publication Number (43) International WO 2010/122298 Al (2010).