



JAMES GAILLARD

BIOMEDICAL ENGINEER | JAMES.GREEN-GAILLARD.COM

SKILLS

- Proficient in MatLab
- Experience mixing chemical compounds in laboratory conditions
- Understand proper cleaning and safety procedures for labwork
- Skilled at working in teams conducting research projects
- Took 3D images using an imaging microscope with a Piezo stage
- Hundreds of hours total lab experience

RELEVANT EXPERIENCE

RESEARCH INTERN • UNIVERSITY OF DELAWARE • 2014

Interned at the University of Delaware researching and experimenting on polymer electrodes for implanted prostheses. Designed tests around the use of a polymer gel as the electrode for cochlear ear implants. Discovered an unexpected technique for creating small aggregates in PEDOT gel during research into its use for prosthetics.

MCNAIR SCHOLAR • UNIVERSITY OF AKRON • 2012-2013

Through the McNair SRI program, designed and conducted a course of research into the morphology of polymer thin films, leading to publication.

EDUCATION

MS ENGINEERING (BIOMEDICAL) • 2015 • UNIVERSITY OF AKRON

Studies included coursework in Tissue Dynamics, Anatomy, and Chemistry. Thesis work involved turnable wrinkle patterns created via photo-initialized polymerization, including months of labwork.

BS BIOLOGY • 2009 • UNIVERSITY OF NORTH CAROLINA AT GREENSBORO

Studies included coursework in Cell Biology, Calculus, and Physiology

PUBLICATIONS

Tunable Wrinkle and Crease Surface Morphologies from Photoinitiated Polymerization of Furfuryl Alcohol

James G Gaillard, Chelsea Hendrus, and Bryan D. Vogt
Langmuir 29 (48), 15083-15089



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