Scott Herting

(925) 522-6899·smherting@gmail.com

EDUCATION

Texas A&M University *Fall 2015- Present*

- Ph.D. Student in Biomedical Engineering
- Advisor: Dr. Duncan J. Maitland
- GPA: 4.0
- NDSEG Fellow

California Polytechnic State University, San Luis Obispo (Cal Poly) *Fall 2011-Spring 2015*

- B.S. in Biomedical Engineering
- GPA: 3.63
- *Cum Laude*

RESEARCH AND PROFESSIONAL EXPERIENCE

Graduate Research Assistant *August 2015-Present*

Texas A&M University Biomedical Device Laboratory, Dr. Duncan Maitland

Instructional Student Assistant (ISA) *September-December 2014*

Cal Poly Biomedical Engineering

Research Assistant *June-September 2014*

Stanford University, Thomas Rando Laboratory

Lab Manager *June 2013-June 2015*

Cal Poly Tissue Engineering Lab, Dr. Kristen Cardinal

Student Researcher *June 2012-June 2015*

Cal Poly Tissue Engineering Lab, Dr. Kristen Cardinal

PUBLICATIONS AND CONFERENCE PRESENTATIONS

Publications

1. Weems, A.,* **Herting, S.,*** Powers, A., Wustenburg, W., Maitland, D. "The Cytocompatibility of Amino-alcohol Based Aliphatic Shape Memory Polyurethane Degradation Products for Vascular Tissue Engineering and Occlusion Device Applications." (In Preparation) *co-first authors
2. Boyle, A.J., Wierzbicki, M. A., **Herting, S.,** Nathan, A., Weems, A., Hwang, W., Maitland, D. "In Vitro Performance of a Shape Memory Polymer Foam-coated Coil Embolization Device." *Medical Engineering and Physics,* 2017. (Accepted).
3. Weems, A., Szafron, J., Easley, A., **Herting, S.,** Smolen, J., Maitland, D. "Shape Memory Polymers with Enhanced Visibility for Magnetic Resonance- and X-Ray Imaging Modalities." *Acta Biomaterialia,* 2017.

4. Nathan, A.,* Fletcher, G.,* Monroe, M.B., Hwang, W., **Herting, S.,** Hasan, S., Keller, B., Maitland, D. "Particulate Release from Nanoparticle-Loaded Shape Memory Polymer Foams." *Journal of Medical Devices,* 2016. *co-first authors
5. **Herting, S.**,* DiBartolomeo, A.,* Pipes, T., Kunz, S., Temnyk, K., Truty, J., Ur, S., and Cardinal, K.O. "Human Umbilical versus Coronary Cell Sources for Tissue Engineered Blood Vessel Mimics." *Applied In Vitro Toxicology,* 2016. *co-first authors

Conference Presentations

1. **Herting, S.,** Nathan, A., Boyle, T., Monroe, M., Maitland, D. "The Impact of Processing on the Cytocompatibility of Shape Memory Polymer Medical Devices." *SMART 2016,* UT Dallas. Dallas, TX. Poster Presentation. December 2016.
2. **Herting, S.,** Nathan, A., Boyle, T., Monroe, M., Maitland, D. "The Impact of Processing on the Cytocompatibility of Shape Memory Polymer Medical Devices." *BioInterface 2016,* Surfaces in Biomaterials Foundation. Minneapolis, MN. Poster Presentation. October 2016.
3. **Herting, S.,** Maitland, D. "Investigation of the Cytocompatibility of Shape Memory Polymer Devices." *Texas A&M Student Research Week 2016.* Texas A&M University, College Station, TX. Oral Presentation. March 2016.
4. **Herting, S.**, Temnyk, K., Cardinal, KO. "Tissue Engineered Human Coronary Artery Blood Vessel Mimics for Medical Device Testing." *California State University Student Research Competition 2015*, The California State University. San Bernardino, CA. Oral Presentation. May 2015.
    a. Selected by a panel of professors and deans to represent Cal Poly, San Luis Obispo at the annual CSU Student Research Competition held at CSU San Bernardino
5. **Herting, S.**, DiBartolomeo, A., Ur, S., Cardinal, KO. "Human Umbilical versus Coronary Cell Sources for Tissue Engineered Blood Vessel Mimics." *BioInterface 2014*, Surfaces in Biomaterials Foundation. Redwood City, CA. Poster Presentation. October 2014.
6. **Herting, S.**, Cardinal, KO. "Serum-Enriched Media versus the Commercially Available ProNectinF+ for the Adherence of Smooth Muscle Cells in Tissue Engineered Blood Vessel Mimics." *BioInterface 2013*, Surfaces in Biomaterials Foundation. Minneapolis, MN. Poster Presentation. October 2013.

AWARDS AND HONORS

NDSEG Fellowship Awardee

- Department of Defense; Spring 2017

NSF Graduate Research Fellowship Program Honorable Mention

- National Science Foundation; Spring 2017

Biomedical Engineering Graduate Student Travel Grant

- Texas A&M University; Fall 2016

Alpha Eta Mu Beta Biomedical Engineering Honors Society Inductee

- Texas A&M University; Fall 2016

Honorable Mention at the Raymond Ideas Challenge 2016

- Startup Aggieland, Texas A&M University; Spring 2016

2016 Vice President of Research Excellence in Research Award

- Texas A&M University; Spring 2016

1st Place at Fall 2015 Aggies Invent Competition, Theme: Pediatric Medicine

- Texas A&M Engineering Innovation Center; Fall 2015

Texas A&M Graduate Enrichment Fellowship

- Texas A&M University; Fall 2015

Texas A&M Biomedical Engineering Graduate Trainee Fellowship

- Texas A&M University; Fall 2015

Most Outstanding Senior Project in Biomedical Engineering

- Cal Poly College of Engineering Project Expo; Spring 2015
- Judged by Industrial Advisory Board and Faculty

Hannah-Forbes Foundation Grant for senior design project

- Winter 2015

Hannah-Forbes Foundation Grant for undergraduate thesis project

- Winter 2014

Cal Poly Dean's List (Top 15% of the Engineering College)

- Fall 2011, Winter and Spring 2012, Winter and Spring 2013, Winter and Spring 2014, and Fall and Winter 2015

Cal Poly President's Honors List (Dean's List for at least 3 quarters in an academic year)

- 2011-2012

LEADERSHIP AND SERVICE

BioFORCE High School STEM Summer Camp *July 2017*

National Center for Therapeutics Manufacturing, Texas A&M

Biomedical Engineering High School Workshop Volunteer *July 2017*

Texas A&M Department of Biomedical Engineering

Biomedical Engineering Ambassador *Spring 2017-Present*

Texas A&M Department of Biomedical Engineering

Volunteer Basketball Coach *January 2017-Present*

Special Olympics of Texas

Alpha Eta Mu Beta Graduate School Info Panel *Fall 2016*

Alpha Eta Mu Beta Honors Society, Texas A&M University

Communicating Research with the Community (CRC) Coordinator *Summer 2016-Present*

Biomedical Device Lab, Texas A&M University

Undergraduate Summer Research Grant (USRG) Program Mentor *Summer 2016*

Texas A&M University; Mentee: Anthony Powers, University of Florida

Society for Biomaterials President-Elect *Spring 2016-Present*

Society for Biomaterials, Texas A&M University Chapter

BMEGSA Professional Development Committee Chair *Spring 2016-Present*

Texas A&M Biomedical Engineering Graduate Student Association

Texas Science Olympiad Volunteer *April 2016*

State Finals, Texas A&M University

AggieMed Challenge Mentor *April 2016*

Texas A&M University, Kingsville

Middle School Science Club Outreach Volunteer *Fall 2015-Present*

Society for Biomaterials, Texas A&M University Chapter

Tunnell Elementary School Outreach Volunteer *November 2014*

Cal Poly

Volunteer Football Coach *Summer 2011 and 2012*

De La Salle High School (Concord, CA)

MEMBERSHIP

- Surfaces in Biomaterials Foundation *2013-Present*
- Tissue Engineering and Regenerative Medicine International Society *2014-Present*
- Society for Biomaterials, Texas A&M University Chapter *2015-Present*
- Texas A&M Biomedical Engineering Graduate Student Association *2015-Present*
- Biomedical Engineering Society *2016-Present*
- Alpha Eta Mu Beta Honors Society *2016-Present*
- Society for Biomaterials, National Member *2017-Present*