

# Fluvio L. Lobo Fenoglietto

155 S COURT AVE. UNIT 2713. ORLANDO, FL 32801 | [fluvio.lobo@gmail.com](mailto:fluvio.lobo@gmail.com) | (406) 422 8443

## Education

<b>M.S. Biomedical Engineering</b>	University of Minnesota	2015
<b>B.S. Biomedical Engineering</b>	University of Minnesota	2013
<b>B.A Engineering Mathematics</b>	Carroll College	2013

## Experience

<b>Research Faculty, Development Engineer</b> Prototype Development and 3D Print Lab (PD3D) University of Central Florida, Institute of Simulation Training (IST) Orlando, FL	October 2016 – Present
<b>Co-Founder and Technology Director</b> SOTECH Consulting LLC West Hollywood, CA	December 2015 – Present
<b>Visiting Faculty</b> Human Performance in Healthcare (HPH) University of Central Florida, Institute of Simulation Training (IST) Orlando, FL	October 2015 – October 2016
<b>Research Fellow</b> Center for Research in Education and Simulation Technologies (CREST) University of Minnesota, Medical School Minneapolis, MN	August 2015 – October 2015
<b>Graduate Research Assistant (GRA)</b> Center for Research in Education and Simulation Technologies (CREST) University of Minnesota, Medical School Minneapolis, MN	September 2013 – August 2015
<b>ElectroForce Biologics Intern</b> BOSE Corporation Eden Prairie, MN	May 2013 – August 2013
<b>Undergraduate Research Assistant (URA)</b> Center for Research in Education and Simulation Technologies (CREST) University of Minnesota, Medical School Minneapolis, MN	September 2011 – May 2013
<b>Undergraduate Research Assistant (URA)</b> Tranquillo Lab University of Minnesota, Department of Biomedical Engineering Minneapolis, MN	September 2011 – May 2013
<b>Undergraduate Summer Researcher/Intern</b> Robert S. Parker Lab University of Pittsburgh, Department of Chemical and Petroleum Engineering University of Pittsburgh, McGowan Institute for Regenerative Medicine Pittsburgh, PA	May 2011 – August 2011

## Patents, Copyrights and Licenses

Elliott S, Lobo Fenoglietto FL, McAdams S, Paulsen L, Pisansky A. *Devices, Systems, and Methods for Obtaining and Analyzing Urine Flow Rate Data Using Acoustics and Software*. [Patents Application No.: 14/814,960](#). Filed: July 31, 2015. Ref.: 1008.35US02

Lobo Fenoglietto FL. *Evaluating Cellular Migration in Tissue Engineering Scaffolds through an Image Processing Algorithm*. University of Minnesota License Technology #[20150055](#). Minneapolis, MN

Lobo Fenoglietto FL. *Objective Partitioning – Regional analysis methodology for FEM data-sets*. University of Minnesota License Technology #[20160062](#). Minneapolis, MN

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### Publications

Huynh A, Molina Espinosa M, Lobo Fenoglietto FL, Singal A, Iaizzo PA. *Modeling of Swine Diaphragmatic Tissue Under Uniaxial Loading*. ASME. J. Med. Devices. 2015;9(3):030950-030950-3. doi:10.1115/1.4030580.

Norfleet J, Lobo Fenoglietto FL, Mazzeo M. *Simulated Human Tissue Performance*. MODSIM World 2015

Weidenhamer, N. K., Moore, D. L., Lobo, F. L., Klair, N. T., and Tranquillo, R. T. (2015), *Influence of culture conditions and extracellular matrix alignment on human mesenchymal stem cells invasion into decellularized engineered tissues*. J Tissue Eng Regen Med, 9, 605–618. doi:10.1002/term.1974.

McAdams, S., Lobo, F., Aho, C., Mein, J., Vander-Linden, A., Elliott, S. P. (2014), *MP13-17 A model for predicting the flow rate profile of a voiding patient using urine acoustics – Making progress towards remote follow up for urethroplasty*. The Journal of Urology 191(4):e182. Doi:10.1016/j.juro.2014.02.686

### Presentations

Lobo Fenoglietto, Fluvio L., Inziello Jim, Stubbs Jack. *Digital Approach to Customized Biomedical Solutions: Customized, Smart Braces and Prosthetics*. Design of Medical Conference 2018. Minneapolis, MN.

Lobo Fenoglietto, Fluvio L. *Improving the outcome of mechanical tests through the optimization of specimen geometries: Setting the standard for tissue preparation*. Design of Medical Devices Conference 2015. Minneapolis, MN.

Norfleet J, Lobo Fenoglietto FL, Mazzeo M. *Simulated Human Tissue Performance*. MODSIM World 2015