Genevieve Grivas

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EDUCATION

Rensselaer Polytechnic Institute	Troy, NY	2017 – Present

Doctoral Student in Biomedical Engineering
Cumulative GPA: **3.94**

Rensselaer Polytechnic Institute	Troy, NY	2013-2017

Bachelors of Science in Biomedical Engineering

- Concentration in Biomedical Imaging and Instrumentation
- Minor in Computer Science

Cumulative GPA: **3.52**

RESEARCH EXPERIENCE

J. Hahn Research Group Rensselaer Polytechnic Institute   Fall 2017 – Present

Graduate Research Assistant

- Biological modeling of IL-8 inflammatory pathway in gut microbiome

CemSIM, Rensselaer Polytechnic Institute   **Troy, NY**   May 2015 – August 2015

Undergraduate Research Assistant

Study: *Build a robotic ultrasound electrography system to image, quantify, and identify layer specific properties of multi-layer gastrointestinal soft tissue. Data collected will be used to accurate simulate areas of interest for minimally invasive surgical training.*

- Techniques: agar phantom synthesis, robotic mechanical testing, CAD designing, FDM 3D printing.

TEACHING EXPERIENCE

Biomedical Engineering Lab, Rensselaer Polytechnic Institute   Fall 2017

Graduate Teaching Assistant

- Guided undergraduate students through various laboratory experiments including bone and tissue analysis through Instron machines, medical image analysis of ultrasound machines, ECG analysis, hydrogel manufacturing, cell culturing, cellular image analysis, and graded laboratory reports.

Engineering Processes, Rensselaer Polytechnic Institute   Spring 2015 – Fall 2016

Undergraduate Teaching Assistant

- Assisted in machining of aluminum cannon/train, consulted various personal projects of students, facilitated on the following laboratory procedures: use of a lathe, vertical mill, sauntering, metal welding, and plastic welding, grading of laboratory reports and final examination.

Physics II, Rensselaer Polytechnic Institute   Fall 2014 – Spring 2015
Undergraduate Teaching Assistant
- Facilitated laboratory procedures, proctored examinations, graded laboratory reports and examinations.

PUBLICATIONS
T. Vargason, **G. Grivas**, K.L. Hollowood-Jones, and J. Hahn. Towards a Multivariate Biomarker-based Diagnosis of Autism Spectrum Disorder: Review and Discussion of Recent Advancements. *Seminars in Pediatric Neurology*, In Press (2019)

HONORS AND AWARDS
- Recipient of the Founders Award, RPI   2018
- Graduate from RPI, Cum Laude   Spring 2017
- Undergraduate Academic Honors – Dean's Honors List   Fall 2013 – Spring 2017
- Recipient of The Rensselaer Medal

MEDICAL RELATED EXPERIENCE
Cardiologist Associates of Ellis Hospital, Schenectady, NY   October 2011 – June 2012
- Internship: shadowed practice doctors through clinical and hospital settings, learned basic clinical and diagnostic procedures, observed first-hand the following surgeries: coronary angiography, angioplasty, stenting, placement of pacemakers and defibrillators, EKG, echocardiogram, stress testing, ablation, coronary artery bypass surgery.

NYLF Med 2011, Babson College, MA   July 2011
- Participated in emergency medicine simulations, disaster triage simulations, hands-on experiences such as suturing, taking blood pressure, and observing latest in medical technology, observation of live total knee arthroplasty.

ADDITION WORK EXPERIENCE
Communications Specialist   September 2012 – November 2012
ARMA International, LLC, Albany, NY   June 2014 – August 2014
- Analyze communication networks between potential customers, clients, and investors; review, edit, and create social media accounts for marketing; document optimized pathways of marketing for specific consumers; initialize the creation of YouTube videos to demonstrate uses for MuniRoute™.

ADDITIONAL SKILLS
- Proficient in MS Office, MATLAB, Python, C++, C, R, SQL