

Ila Vienneau

ilavienneau.com | ivienneau3@gatech.edu | 336-549-8409

Education

Georgia Institute of Technology, Atlanta, GA

Expected May, 2020

Bachelor of Science in Engineering for Biomedical Engineering

Minor in Computer Science with a concentration in Artificial Intelligence

Major GPA: 3.74/4.0

Experience

Undergraduate Research at Keilholz Lab, Emory

November 2017 – Present

- Working to develop an algorithm which uses unsupervised machine learning techniques to detect signal patterns conserved across regions of interest of a brain, and across brains of patients from functional magnetic resonance imaging scans.

Research and Development Intern at MiMedx

July, 2017 - August 2017

- Characterized the elution of growth factors and cytokines from membranous and micronized forms of a placenta-derived tissue allograft product EpiFix in different eluents.
- Verified and quantified the presence of anti-microbial peptides—specifically the defensin superfamily—in MiMedx products and fresh tissue to increase understanding of immunogenic properties of MiMedx products.
- Characterized polyhydramniotic amniotic fluid in comparison to normal amniotic fluid to determine the feasibility of accepting fluid and tissue from donors with the condition polyhydramnios for use in MiMedx products.

Product Development

August, 2017 – December 2017

- Gained leadership skills working collaboratively in a small team to design, model, and build a novel device for the detection of febrile seizures and protection from associated head injuries in infants 6 months to 3 years of age.

Skills and Interests

Research: Proficient in the following: data analysis, report writing, ELISA, BCA assay, Gel Electrophoresis, Multiplex ELISA, Western Blotting, eluting/dialyzing/lyophilizing/concentrating samples, etc.

Technical: Proficient in Java, MATLAB, and Excel. Experience with Python, JavaScript, HTML and CSS / Website Design

Hobbies: Scuba diving, backpacking, white water rafting, hiking, running, traveling.

Campus Involvement

Alpha Gamma Delta

August, 2016 - Present

- Philanthropic volunteering via partnership with Meals on Wheels and Feeding America to fight hunger