Jack M. Felag jfelag@uvm.edu

EDUCATION

University of Vermont (UVM) *Expected May 2019*
B.Sc. Computer Science & **B.Sc.** Mathematics
Minor in Physics

PUBLICATIONS

Mahoor, Zahra, **Jack Felag**, and Josh Bongard. "Morphology dictates a robot's ability to ground crowd-proposed language". arXiv preprint arXiv:1712.05881 (2017) [in review at an AI conference.]

SKILLS

Genetic Algorithms, Evolutionary Computation, Python, C, MySQL, Java.

RELEVANT COURSEWORK

CS	295A	Combinatorial Algorithms	MATH	273	Combinatorial Graph Theory
CS	224	Algorithm Analysis & Design	MATH	241	Analysis in Several Real Variables
CS	206	Evolutionary Robotics	MATH	173	Basic Combinatorial Theory
CS	201	Operating Systems	MATH	124	Linear Algebra
CS	125	Computability & Complexity	PHYS	256	Computational Physics
CS	121	Computer Organization			

CONFERENCES

(Attended)	Hudson River Undergraduate Math Conference	April 8, 2017
(Presented)	Hudson River Undergraduate Math Conference	April 7, 2018 (Tentative)

WORK EXPERIENCE

Morphology, Evolution, and Cognition Lab Burlington, VT – October 2016 - Present
Undergraduate Research Assistant. Supervised by Dr. Josh Bongard, my work has focused on how the body shapes the way robots can learn language. This work resulted in a conference paper (in review). In addition, I have studied modularity in neural networks. For more information, see www.meclab.org.

UVM Math Club Burlington, VT – May 2017 - Present
President. I plan and lead meetings, and designed the club website.

Dynapower South Burlington, VT – August 2017 - Present
Sales Intern. I created a GUI for data input that generated PDF reports for the user.

GZA GeoEnvironmental, Inc. Providence, RI – May 2016 - August 2016
Environmental Engineering Intern. I collected soil and water samples and transported them to the lab. Also, I monitored ambient air for high levels of certain substances. With these results, I updated reports and used GIS software to update site maps.

UVM School of Engineering Burlington, VT – October 2015 - December 2015
Teaching Assistant. I supervised a lab of 30 students using SolidWorks for ENGR 002: Graphical Communications. This involved showing students techniques in CAD, and helping them improve the basics of their engineering and design careers.