# **Timothy Barry**

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### **EDUCATION**

## **Carnegie Mellon University** 2018 -PhD in Statistics University of Maryland, College Park 2014 - 2018 BS in Mathematics with high honors Minor in Computer Science INTERNSHIPS AND EXPERIENCE Summer 2018 Machine Learning Team, National Institutes of Health • Trained statistical machine learning algorithms to forecast the recovery trajectory of individuals who suffered stroke. • Advisors: Francisco Pereira & Charles Zheng Summer 2017 Center for Quantitative Medicine, UConn Health • Constructed a mathematical model of iron metabolism in the human body; used the model to test in silico the effect of treatments on iron-abnormal individuals. • Advisor: Pedro Mendes Laboratory of William Fagan, University of Maryland 2015 - 2018 • Investigated wolf interaction with humans and human infrastructure using a general linear and mixed-effects modeling framework. Advisor: Eliezer Gurarie **HONORS AND AWARDS** • Howard Hughes Medical Institute Fellowship 2017 • Maryland Summer Scholars Research Grant 2016 • Banneker-Key Scholarship, University of Maryland's most prestigious scholarship 2014 **COMPUTING** • Languages: R, Python, C • Version control systems: Git/Github • Operating systems: Unix

### SERVICE AND SCIENCE OUTREACH

<ul> <li>Volunteer math, science, and English tutor to local elementary and middle school</li> </ul>	2015 – 2018
students (through UMD Lakeland STARS program)	
<ul> <li>Volunteer mentor to a computer science undergraduate student (through CMU</li> </ul>	2019
Al Undergraduate Research Mentoring program)	

### **PUBLICATIONS AND CONFERENCE PRESENTATIONS**

• Barry, Timothy, Eliezer Gurarie, Farid Cheraghi, Ilpo Kajola, William Fagan. "Dispersal makes the heart grow bolder: variation in habitat selection across wolf life history." <i>Animal Behaviour</i> (accepted pending revision).	2019 +
• Barry, Timothy. "Collections in R: Review and Proposal." The R Journal 10.1.	2018
• Barry, Timothy, Gockenbach Mary, Mendes Pedro, Parmar Jignesh. "A mathematical model of iron metabolism in the human body." Presented at Joint Mathematics Meetings in San Diego, CA.	2018