Timothy Barry

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EDUCATION

EDUCATION	
Carnegie Mellon University	2018 -
PhD in Statistics and Data Science	
University of Maryland, College Park	2014 – 2018
BS in Mathematics with high honors	
Minor in Computer Science	
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/C++	
Version control systems: Git/Github	
Operating systems: Unix	
TEACHING ASSISTANTSHIPS	
• Statistics 36-350: Statistical computing	Fall 2018
• Statistics 36-469: Statistical genomics and high-dimensional inference	Spring 2020
SERVICE AND SCIENCE OUTREACH	
 Volunteer math, science, and English tutor to elementary and middle school students through UMD Lakeland STARS program. 	2015 – 2018
INVITED TALKS	
• "Conditional resampling improves calibration and sensitivity in single-cell CRISPR screen analysis." Xin He Lab, Department of Genetics, University of Chicago.	2021
PAPERS	
• J Morris, Z Daniloski, J Domingo, T Barry , M Ziosi, D Glinos, S Hao, E Mimitou, P Smibert, K Roeder, E Katsevich, T Lappalainen, N Sanjana. "Discovery of target genes and pathways of blood trait loci using pooled CRISPR screens and single	2021
cell RNA sequencing." Preprint on bioRxiv • T Barry, X Wang, J Morris, K Roeder, E Katsevich. "Conditional resampling improves calibration and sensitivity in single-cell CRISPR screen analysis." Preprint on bioRxiv.	2021

Undergraduate

• T Barry*, E Gurarie*, F Cheraghi, I Kajola, W Fagan. "Does dispersal make	2020
the heart grow bolder? Avoidance of anthropogenic habitat elements across wolf	
life history." Animal Behaviour 166. *Joint first authorship.	
• T Barry. "Collections in R: Review and Proposal." The R Journal 10.1.	2018

Updated April 2021.