## **Timothy Barry**

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## **EDUCATION**

Carnegie Mellon University PhD in Statistics and Data Science	2018 –
University of Maryland, College Park BS in Mathematics with high honors Minor in Computer Science	2014 – 2018
HONORS AND AWARDS	
<ul> <li>Howard Hughes Medical Institute Fellowship</li> <li>Maryland Summer Scholars Research Grant</li> <li>Banneker-Key Scholarship, University of Maryland's most prestigious scholarship</li> </ul>	2017 2016 2014
COMPUTING	
<ul> <li>Languages: R, Python, C/C++</li> <li>Version control systems: Git/Github</li> <li>Operating systems: Unix</li> </ul>	
TEACHING ASSISTANTSHIPS	
<ul> <li>Statistics 36-350: Statistical computing</li> <li>Statistics 36-469: Statistical genomics and high-dimensional inference</li> </ul>	Fall 2018 Spring 2020
SERVICE AND SCIENCE OUTREACH	
<ul> <li>Volunteer math, science, and English tutor to elementary and middle school students through UMD Lakeland STARS program.</li> </ul>	2015 – 2018
PAPERS	
• J Morris, Z Daniloski, J Domingo, <b>T Barry</b> , 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 cell RNA sequencing." Preprint on bioRxiv	2021
• <b>T Barry</b> , 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	
• <b>T Barry</b> *, E Gurarie*, F Cheraghi, I Kajola, W Fagan. "Does dispersal make the heart grow bolder? Avoidance of anthropogenic habitat elements across wolf life history." <i>Animal Behaviour</i> 166. * <i>Joint first authorship</i> .	2020
• <b>T Barry</b> . "Collections in R: Review and Proposal." The R Journal 10.1.	2018