

## Alec McClean

---

Contact	5000 Forbes Ave, Pittsburgh PA, 15213 <a href="https://alecmcclean.github.io">https://alecmcclean.github.io</a>   <a href="mailto:alec@stat.cmu.edu">alec@stat.cmu.edu</a>   <a href="mailto:mccleanalec@gmail.com">mccleanalec@gmail.com</a>	
Education	<b>Carnegie Mellon University</b> Ph.D., Statistics <i>Areas of interest: Causal Inference, Health policy, Non and semi-parametric methods</i> M.S., Statistics	May 2024 (Expected)  May 2021
	<b>Swarthmore College</b> B.A., Economics and Mathematics <i>Phi Beta Kappa</i>	May 2016
Research Interests	Causal Inference; Health Policy; Nonparametric statistics; Functional estimation	
Research Projects	<b>Nonparametric Estimation of Conditional Incremental Effects</b> <i>Under review at the Journal of Causal Inference</i> <a href="https://arxiv.org/pdf/2212.03578.pdf">https://arxiv.org/pdf/2212.03578.pdf</a> Poster presentations at ACIC 2022, ENAR Spring Meeting 2023, and JSM 2023  <b>Incremental causal effects: an introduction and review</b> <i>Published in the Handbook of Matching and Weighting Adjustments for Causal Inference, 2023</i> <a href="https://arxiv.org/abs/2110.10532">https://arxiv.org/abs/2110.10532</a>  <b>Incremental Propensity Score Effects for Criminology: An Application Assessing the Relationship Between Houselessness, Behavioral Health Problems, and Recidivism</b> <i>Under review at the Journal of Quantitative Criminology</i> <a href="https://arxiv.org/abs/2305.14040">https://arxiv.org/abs/2305.14040</a>	
Ongoing Work	<b>Double Cross-fit Doubly Robust Estimators: Beyond Series Regression</b> <i>Winner of the Ten Have poster competition at ACIC 2023</i> <a href="https://alecmcclean.github.io/files/ACIC2023.pdf">https://alecmcclean.github.io/files/ACIC2023.pdf</a>	

Teaching	<b>Department of Statistics and Data Science, Carnegie Mellon University</b>	
	<b>As Course Instructor</b>	
	<i>Introduction to Statistical Inference</i>	Summer 2022
	<b>As Teaching Assistant</b>	
	<i>Optum Summer Undergraduate Research Experience</i>	Summer 2023
	<i>Introduction to Causal Inference</i>	Spring 2022 & 2023
	<i>Graduate Causal Inference</i>	Fall 2022
	<i>Advanced Methods for Data Analysis</i> (served as Head TA)	Spring 2021
	<i>Methods for Statistics</i>	Summer 2021
	<i>Modern Regression</i>	Fall 2019
Service	<b>Heinz College of Information Systems and Public Policy, Carnegie Mellon University</b>	
	<i>Statistical Reasoning with R</i> (served as Head TA)	Fall 2020 & 2021
	CMU Statistics Student Activities Committee representative	2019 - Present
	Pittsburgh ASA CMU student representative	2022 - Present
	<b>Senior Research Analyst</b> , The Brattle Group	2018 - 2019
	<ul style="list-style-type: none"> <li>• Managed teams of 10+ junior analysts in developing econometric and statistical models (including zero-inflated Poisson, Cox survival, and hierarchical Bayes) to create a state-of-the-art economic structural model of the health insurance industry.</li> <li>• Acquired extensive case experience in the health care industry with a focus on modelling expected claims incurred by health insurance subscribers and company likeliness to switch insurers.</li> </ul>	
	<b>Research Analyst</b> , The Brattle Group	2016 - 2018
	<ul style="list-style-type: none"> <li>• Cleaned, analyzed, and organized large data sets (&gt; 100 GBs) using SQL, R, and Python.</li> <li>• Created a &gt;50 script data processing pipeline to efficiently clean and collate several TBs of data into analyzable data sets for project team use.</li> </ul>	
Awards	<b>Phi Beta Kappa</b> , Swarthmore College	Spring 2016
	Cumulative undergraduate GPA: 3.91	
	<b>Kwink Trophy</b> , Swarthmore College	Spring 2016
	Senior who best exemplifies the five principles of Service, Spirit, Scholarship, Society and Sportsmanship	
Skills	<b>Scholar Athlete of the Year</b>	Fall 2014
	Centennial Conference All-Conference athlete with the highest GPA	
	R, Python, L <sup>A</sup> T <sub>E</sub> X, Microsoft Office	