

## Alec McClean

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Current Position	<b>New York University Grossman School of Medicine</b> Postdoctoral Fellow <i>Causal inference, statistics, and machine learning for healthcare</i>
Education	<b>Carnegie Mellon University</b> Ph.D., Statistics May 2024 <i>Thesis: Heterogeneity, Optimality, and Sensitivity in Causal Inference</i> M.S., Statistics May 2021  <b>Swarthmore College</b> B.A., Economics and Mathematics May 2016 <i>Phi Beta Kappa</i>
Research Interests	Theory: causal inference; functional estimation; nonparametric statistics and machine learning Applications: economics; healthcare services research; criminology; medicine
Publications <i>Statistical theory &amp; methods</i>	A. Levis, E.H. Kennedy, <b>A. McClean</b> , S. Balakrishnan, and L. Wasserman. Stochastic interventions, sensitivity analysis, and optimal transport. <i>arXiv:2411.14285</i> , 2024.  <b>A. McClean</b> , Y. Li, S. Bae, M. McAdams-DeMarco, I. Díaz, W. Wu. Fair comparisons of causal parameters with many treatments and positivity violations. <i>arXiv:2410.13522</i> , 2024. Presentation at ENAR 2025  <b>A. McClean</b> , Z. Branson, E.H. Kennedy. Calibrated sensitivity models. <i>arXiv:2405.08738</i> , 2024. Presentations at CMStatistics 2023 and ACIC 2024  <b>A. McClean</b> , E.H. Kennedy, S. Balakrishnan, and L. Wasserman. Double Cross-fit Doubly Robust Estimators: Beyond Series Regression. <i>arXiv:2403.15175</i> , 2024. <i>Winner of the Ten Have poster competition at ACIC 2023</i>  <b>A. McClean</b> , Z. Branson, and E.H. Kennedy. Nonparametric estimation of conditional incremental effects. <i>Journal of Causal Inference</i> , 12(1):20230024, 2024. Poster presentations at ACIC 2022, ENAR Spring Meeting 2023, and JSM 2023  M. Bonvini*, <b>A. McClean*</b> , Z. Branson, and E. H. Kennedy. Incremental causal effects: an introduction and review. In <i>Handbook of Matching and Weighting Adjustments for Causal Inference</i> , pages 349–372, 2023. *Equal contribution

Publications <i>Health and social science</i>	<b>A. McClean</b> , Z. Rausch, and J. Haidts. The Effect of Broadband Access on Mental Health: A Review of Instrumental Variable Studies. Under review at <i>Social Science and Medicine</i> , 2025.	
	L. Sigaud, Z. Rausch, <b>A. McClean</b> , and J. Haidt. How three studies by Vuorre and Przybylski may have obscured the impact of social media on youth mental health. Under review at <i>Clinical Psychological Science</i> , 2025.	
	L. A. Jacobs, <b>A. McClean</b> , Z. Branson, E. H. Kennedy, and A. Fixler. Incremental Propensity Score Effects for Criminology: An Application Assessing the Relationship Between Homelessness, Behavioral Health Problems, and Recidivism. <i>Journal of Quantitative Criminology</i> , pages 1–20, 2023.	
Software	Contributor to <code>npcausal</code> R package <a href="https://github.com/ehkennedy/npcausal">https://github.com/ehkennedy/npcausal</a> .	
Awards	<b>Tom Ten Have award</b> for “exceptionally creative or skillful research on causal inference” at the 2023 American Causal Inference Conference	
	<b>PhD Teaching Assistant of the Year</b> , 2024, Carnegie Mellon University, Statistics & Data Science Department	
	<b>Phi Beta Kappa</b> , Swarthmore College	Spring 2016
Teaching	<b>Department of Statistics and Data Science, Carnegie Mellon University</b>	
	<b>As Course Instructor</b>	
	<i>Undergraduate Introduction to Statistical Inference</i>	Summer 2022
	<b>As Teaching Assistant</b>	
	<i>Undergraduate Introduction to Statistical Inference (Head TA and backup instructor)</i>	Spring 2024
	<i>Graduate Intermediate Statistics (Head TA)</i>	Fall 2023
	<i>Undergraduate Optum Summer Research Experience</i>	Summer 2023
	<i>Undergraduate Causal Inference</i>	Spring 2022 & 2023
	<i>Graduate Causal Inference</i>	Fall 2022
	<i>Undergraduate Advanced Methods for Data Analysis (Head TA)</i>	Spring 2021
	<i>Undergraduate Methods for Statistics</i>	Summer 2021
	<i>Undergraduate Modern Regression</i>	Fall 2019
	<b>Heinz College of Information Systems and Public Policy, Carnegie Mellon University</b>	
	<i>Graduate Statistical Reasoning with R (Head TA)</i>	Fall 2020 & 2021

Academic Service	Reviewer for <i>ACIC 2024</i> <i>American Journal of Epidemiology</i> <i>Annals of Statistics</i> <i>Behavioral Research Methods</i> <i>Bernoulli</i> <i>Biometrical Journal</i> <i>Biometrika</i> <i>JASA Theory &amp; Methods</i> <i>Observational Studies</i> <i>Review of Economics and Statistics</i> <i>Statistics in Medicine</i>	
	CMU Statistics Student Activities Committee representative	2019 - Present
	CMU Statistics Student Mentor	2020 - Present
	Pittsburgh ASA CMU student representative	2022 - Present
Work Experience	<b>Statistical consultant</b> , Charlie Health	2024 - 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>	
Skills	R, Python, L <sup>A</sup> T <sub>E</sub> X, Microsoft Office	