Noah Lorincz-Comi

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Education

PhD, Epidemiology & Biostatistics – Case Western Reserve University, USA (CWRU)2019-Dec. 2023MSc, Psychiatric Research (Top of class) – King's College London, UK (KCL)2018-2019BA, Psychology – Ohio University, USA (OHIO)2014-2018

PhD Dissertation: Develop statistical methods to study Alzheimer's disease risk

- Aim 1: Develop a bias-corrected multivariable Mendelian Randomization (MR) estimator and software
- Aim 2: Develop statistical and computational tools to perform genome-wide searches for causal genes
- Aim 3: Find genes whose expression in brain and heart tissues cause Alzheimer's Disease risk

Statistical Software

- **simmr** (**R**) Simulates data for evaluating statistical methods in Mendelian Randomization
- HORNET (Python) Estimates causal regulatory networks of gene expression and disease
- MRBEE (Python & R) Performs bias-corrected multivariable Mendelian Randomization
- **spatialme** (R) Fits bias-corrected multivariable geographically weighted regression
- **sgmm** (R) Prepares longitudinal pharmacy records to be analyzed using growth mixture models
- glmice (R) Pools model fit diagnostics from logistic regression using multiple imputation

Professional Experience

Consulting

Statistical

1)	OB/GYN Department, University Hospitals, Cleveland, OH – Clinical data analysis	2023 – Current		
2)	Cancer Support Community, Washington, DC – Insurance claims data analysis	2023 - Current		
3)	Dr. Gregory Cooper, University Hospitals, Cleveland, OH – Clinical data analysis	2023		
Rusiness				

Business

1) Bophana Audiovisual Arts Center, Phnom Penh, Cambodia – securing grant funding

2017

Reviewer

1)	(Academic journal) BMC Medical Research Methodology	2022 - Current
2)	(Academic journal) Nature: Scientific Reports	2022 - Current
3)	(Academic journal) Cities & Health	2023 - Current
4)	(Undergraduate research grants) Summer research applications seeking \$3.5k (CWRU)	2022-2023
5)	(Undergraduate research) Judge of 30+ posters of capstone work (CWRU)	2022-Current

Undergraduate mentorship

1)	Supporting 2 undergraduates in estimating risk of Alzheimer's from gut bacteria (CWRU)	2023 - Current
2)	Research Sponsor for BIOL 388S, 3 credit hours (CWRU)	2023 - Current

Scientific Publications

Statistical method development

- Lorincz-Comi et al. (2023) An open-source tool to perform simulations in Mendelian Randomization
- **Lorincz-Comi** et al. (2023) HORNET: Statistical and computational tools for causal gene inference
- Lorincz-Comi et al. (2023) MRBEE: R and Python functionality for robust Multivariable MR
- Lorincz-Comi et al. (2023) MRBEE: A novel bias-corrected multivariable MR method
- Zhu, Yang, Lorincz-Comi et al. (2023) A New Method to Identify Gene-Environment Interactions
- Lorincz-Comi et al. (2021) Addressing uncertainty in census estimates

Applied work

- Linz, Lorincz-Comi et al. (2023) Patient decisions regarding rescheduling postponed colonoscopies
- Lovell, Lorincz-Comi et al. (2023) Spatial Predictors of Rape: A Novel Spatial Regression Approach
- Lovell, McGuire, Lorincz-Comi et al. (2022) Examining Walking-Waiting Sexual Assaults
- Lorincz-Comi et al. (2021) Cardiometabolic risks of SARS-CoV-2 hospitalization using MR
- Min, Albert, Lorincz-Comi et al. (2021) Prenatal substance exposure and developmental trajectories
- Lorincz-Comi et al. (2019) Chronic disease treatment seeking and depression

Grant, Awards and Honors

Gra	nts		
-	\$60k	T32 Grant, National Institutes of Health (CWRU)	2020-2022
Awards			
-	£150	Sir Robin Murray Prize, Top of MSc Class (KCL)	2019
-	\$150	Student Research Fund (OHIO)	2018
-	\$250	David A Johnson Undergraduate Research Travel Award (OHIO)	2017
-	\$150	David A Johnson Undergraduate Research Travel Award (OHIO)	2017
-	\$150	Research Travel Fund, Center for Intl. Studies (OHIO)	2017
-	\$1,500	Provost Undergraduate Research Fund (OHIO)	2016
-	\$500	Undergraduate Research Travel Fund (OHIO)	2016
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-		MS 450, Fundamental Biostatistics to Enhance Rigour and Reproducibility (CWRU)	2022
-		HS 431, Statistical Methods in Biological and Medical Sciences I (CWRU)	2019
-	IA to GL	C 1000, The Global Experience, Global Leadership Center (OHIO)	2018

<u>Presentations</u>

American Society of Human Genetics

Washington, D.C (2023, 2023), Los Angeles, CA (2022, 2022, 2022), Virtual (2021)

International Genetic Epidemiology Society

- Nashville, TN (2023, 2023), Paris, France (2022)

Other

Cleveland Clinic (2023), NIH Trainee Session (Heart, Lung, & Blood Institute) (2022), Cohorts for Heart and Aging Research in Genomic Epidemiology (2022), CWRU Biomedical Graduate Student Symposium (2021), Francis Crick Center Mastership Conference in London, UK (2019), ABCT in New York, New York (2016), Center for School Mental Health in San Diego, CA (2016, 2016, 2016), OU Student Expo (2018, 2016, 2016), Advancing School Mental Health, New Orleans, LA (2015)

Volunteering

,	Chair of the CWRU Biomedical Graduate Student Symposium, Cleveland, OH Lead Fundraising, Abstract, Judging, Website, Advertising, and Speaker Committees	25+ hrs
2) -	Oasis Anti Human Trafficking, Mumbai, India Assisted members of Oasis with administrative duties, lead sports activities with children	15 hrs
3) -	Appalachian Behavioral Healthcare Hospital, Athens, OH Assisted staff with administrative duties, participate in sports activities with patients	20 hrs