

Suggested Readings at the Intersection of Machine Learning and Epidemiology
In chronological order

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Lazer D, Kennedy R, King G, Vespignani A. The parable of Google Flu: Traps in Big Data Analysis. Science 2014; 343:1203-1205.

Chiavegatto Filho ADP, Dos Santos HG, do Nascimento CF, Massa K, Kawachi I. Overachieving municipalities in public health: A machine learning approach. Epidemiology 2018; 29:836-40.

Naimi AI, Platt RW, Larkin JC. Machine learning for fetal growth prediction. Epidemiology 2018; 29:290-298.

Mooney SJ and Pejaver V. Big Data in Public Health: Terminology, machine learning and privacy. Annual Review of Public Health 2018; 39:95-112.

Obermeyer Z, Powers B, Vogeli C, Mullainathan S. Dissecting racial bias in an algorithm used to manage the health of populations. Science 2019; 366:447-453.

Chowdhury AS, Lofgren ET, Moehring RW, Broschat SL. Identifying predictors of antimicrobial exposure in hospitalized patients using a machine learning approach Journal of Applied Microbiology 2019; doi:10.1111/jam.14499.

Platt RW, Grandi SM. Machine learning for the prediction of postpartum complications is promising, but needs rigorous evaluation BJOG 2019; 126:710.

Weichenthal S, Hatzopoulou M, Brauer M. A picture tells a thousand...exposures: Opportunities and challenges of deep learning image analysis in exposure science and environmental epidemiology. Environment International 2019; 122:3-10.

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Blakely T, Lynch J, Simons K, Bentley R, Rose S. Reflecting on modern methods: when worlds collide-prediction, machine learning and causal inference. Int J Epi 2021; 49:2058-64.

Jiang T, Gradus JL, Lash TL, Fox MP. Addressing measurement error in random forests using quantitative bias analysis. *AJE* 2021; 190:1830-40.

Broadbent A, Grote T. Can robots do epidemiology? Machine learning, causal inference and predicting the outcomes of public health interventions. *Philos Technol.* 2022; 35:14.

Roh ME, Mpimbaza A, Oundo B, Irish A, et al. Association between indoor residual spraying and pregnancy outcomes: a quasi-experimental study from Uganda. *IJE* 2022; Online Ahead of Print. doi: 10.1093/ije/dyac043.

Althomsons SP, Winglee K, Heilig CM, Talarico S et al. Using machine learning techniques and national tuberculosis surveillance data to predict excess growth in genotypes tuberculosis clusters. *AJE* 2022; Online Ahead of Print doi:10.1093/aje/kwac117

Rundle AG, Bader MDM, Mooney SJ. Machine learning approaches for measuring neighborhood environments in epidemiologic studies. *Curr Epidemiol Rep* 2022; Online Ahead of Print; doi: 10.1007/s40471-022-00296-7.