

# Stanford

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## Maya Mathur

Associate Professor (Research) of Pediatrics, of Medicine (Computational Medicine) and, by courtesy, of Epidemiology and Population Health

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### Bio

#### BIO

My publications and CV are available at: [www.mayamathur.com](http://www.mayamathur.com).

#### ACADEMIC APPOINTMENTS

- Associate Professor (Research), Pediatrics
- Associate Professor (Research), Computational Medicine
- Associate Professor (Research) (By courtesy), Epidemiology and Population Health
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

#### LINKS

- [mayamathur.com](http://mayamathur.com): [www.mayamathur.com](http://www.mayamathur.com)
- Google Scholar profile: <https://scholar.google.com/citations?user=vmuNN1sAAAAJ&hl=en>

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### Research & Scholarship

#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Synthesizing evidence across studies while accounting for biases

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### Teaching

#### STANFORD ADVISEES

##### Master's Program Advisor

Yasha Iravantchi

##### Doctoral (Program)

Anna Thomas

## Publications

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### PUBLICATIONS

- **Simple graphical rules for assessing selection bias in general-population and selected-sample treatment effects** *AMERICAN JOURNAL OF EPIDEMIOLOGY*  
Mathur, M. B., Shpitser, I.  
2024; 194 (1): 267-277
- **Assessing robustness to worst case publication bias using a simple subset meta-analysis** *BMJ-BRITISH MEDICAL JOURNAL*  
Mathur, M. B.  
2024; 384: e076851
- ***P*-hacking in meta-analyses: A formalization and new meta-analytic methods** *RESEARCH SYNTHESIS METHODS*  
Mathur, M. B.  
2024; 15 (3): 483-499
- **Ethical drawbacks of sustainable meat choices** *SCIENCE*  
Mathur, M. B.  
2022; 375 (6587): 1362
- **Methods to Address Confounding and Other Biases in Meta-Analyses: Review and Recommendations** *ANNUAL REVIEW OF PUBLIC HEALTH*  
Mathur, M. B., VanderWeele, T. J.  
2022; 43: 19-35
- **Investigating the replicability of preclinical cancer biology.** *eLife*  
Errington, T. M., Mathur, M., Soderberg, C. K., Denis, A., Perfito, N., Iorns, E., Nosek, B. A.  
2021; 10
- **Menopausal hormone therapy and women's health: An umbrella review.** *PLoS medicine*  
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2021; 18 (8): e1003731
- **Interventions to Reduce Meat Consumption by Appealing to Animal Welfare: Meta-Analysis and Evidence-Based Recommendations.** *Appetite*  
Mathur, M. B., Peacock, J., Reichling, D. B., Nadler, J., Bain, P. A., Gardner, C. D., Robinson, T. N.  
2021: 105277
- **Sensitivity analysis for publication bias in meta-analyses** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES C-APPLIED STATISTICS*  
Mathur, M. B., VanderWeele, T. J.  
2020; 69 (5): 1091-1119
- **Finding Common Ground in Meta-Analysis "Wars" on Violent Video Games** *PERSPECTIVES ON PSYCHOLOGICAL SCIENCE*  
Mathur, M. B., VanderWeele, T. J.  
2019; 14 (4): 705-708
- **Sensitivity Analysis for Unmeasured Confounding in Meta-Analyses** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*  
Mathur, M. B., VanderWeele, T. J.  
2020; 115 (529): 163-172
- **New metrics for meta-analyses of heterogeneous effects** *STATISTICS IN MEDICINE*  
Mathur, M. B., VanderWeele, T. J.  
2019; 38 (8): 1336-1342
- **Web Site and R Package for Computing E-values** *EPIDEMIOLOGY*  
Mathur, M. B., Ding, P., Riddell, C. A., VanderWeele, T. J.  
2018; 29 (5): E45-E47

- **Data availability, reusability, and analytic reproducibility: evaluating the impact of a mandatory open data policy at the journal Cognition.** *Royal Society open science*  
Hardwicke, T. E., Mathur, M. B., MacDonald, K., Nilsonne, G., Banks, G. C., Kidwell, M. C., Hofelich Mohr, A., Clayton, E., Yoon, E. J., Henry Tessler, M., Lenne, R. L., Altman, S., Long, et al  
2018; 5 (8): 180448
- **PSYCHOLOGY Estimating the reproducibility of psychological science** *SCIENCE*  
Aarts, A. A., Anderson, J. E., Anderson, C. J., Attridge, P. R., Attwood, A., Axt, J., Babel, M., Bahnik, S., Baranski, E., Barnett-Cowan, M., Bartmess, E., Beer, J., Bell, et al  
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- **Effect of a portion-size default nudge on meat consumption and diner satisfaction: controlled experiments in Stanford University dining halls** *BMC PUBLIC HEALTH*  
Voski, A., Braginsky, M., Zhang, A., Bertoldo, J., Egan, S., Levig, L. A., Ihrig, M., Mathur, M. B.  
2025; 25 (1): 1434
- **Pitfalls of imputing using incomplete auxiliary variables.** *American journal of epidemiology*  
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- **Meaningfully reducing consumption of meat and animal products is an unsolved problem: A meta-analysis.** *Research square*  
Green, S. A., Smith, B., Mathur, M. B.  
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- **Observational research in epidemic settings: a roadmap to reform.** *BMJ global health*  
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- **Mathur and Shpitser respond to "The evolution of selection bias in the recent epidemiologic literature-a selective overview"** *AMERICAN JOURNAL OF EPIDEMIOLOGY*  
Mathur, M. B., Shpitser, I.  
2025; 194 (3): 585-586
- **On the Statistical Analysis of Experiments With Manipulation Checks** *ADVANCES IN METHODS AND PRACTICES IN PSYCHOLOGICAL SCIENCE*  
Mathur, M. B.  
2025; 8 (1)
- **Meta-analysis with Jeffreys priors: Empirical frequentist properties** *RESEARCH SYNTHESIS METHODS*  
Mathur, M. B.  
2025; 16 (1): 87-122
- **Population Trends and Individual Fluidity of Sexual Identity Among Stockholm County Residents.** *JAMA network open*  
Zhang, W., Tynelius, P., Mathur, M. B., Quartagno, M., Brandén, G., Liljeros, F., Kosidou, K.  
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- **Nurse Burnout and Patient Safety, Satisfaction, and Quality of Care: A Systematic Review and Meta-Analysis.** *JAMA network open*  
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- **Reanalysis of "A longitudinal study of meat reduction over time in the UK"** *FOOD QUALITY AND PREFERENCE*  
Winslow, J., Mathur, M. B.  
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- **A Randomized Controlled Trial of a Brief Self-Directed Secular REACH Forgiveness Intervention With Indonesian Christians: Does Religiosity Matter?** *SPIRITUALITY IN CLINICAL PRACTICE*  
Kurniati, N., Cowden, R. G., Zulkaida, A., Gunatirin, E. Y., Rahardjo, W., Elisabeth, M. P., Suryani, A., Cynthia, T., Rini, Q., Mathur, M. B., Ho, M., VanderWeele, T. J., Worthington Jr, et al  
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- **Considering pregnancies as repeated versus independent events: An empirical comparison of common approaches across selected perinatal outcomes.** *American journal of obstetrics & gynecology MFM*  
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- **International REACH forgiveness intervention: a multisite randomised controlled trial.** *BMJ public health*  
Ho, M. Y., Worthington, E. L., Cowden, R. G., Bechara, A. O., Chen, Z. J., Gunatirin, E. Y., Joynt, S., Khalanskyi, V. V., Korzhov, H., Kurniati, N. M., Rodriguez, N., Anastasiya Salnykova, A., Shtanko, et al  
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- **The Risk of Aircraft-Acquired SARS-CoV-2 Transmission during Commercial Flights: A Systematic Review.** *International journal of environmental research and public health*  
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- **Toward evidence-based communication on overweight body mass index and mortality** *BMC MEDICINE*  
Mathur, M. B., Mathur, V. S.  
2024; 22 (1): 183
- **Do Forgiveness Campaign Activities Improve Forgiveness, Mental Health, and Flourishing?** *International journal of public health*  
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- **In silico identification of putative causal genetic variants.** *bioRxiv : the preprint server for biology*  
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- **Evidence for Infant-directed Speech Preference Is Consistent Across Large-scale, Multi-site Replication and Meta-analysis.** *Open mind : discoveries in cognitive science*  
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- **Marital transitions during earlier adulthood and subsequent health and well-being in mid- to late-life among female nurses: An outcome-wide analysis.** *Global epidemiology*  
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- **Eleven years of student replication projects provide evidence on the correlates of replicability in psychology.** *Royal Society open science*  
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- **Effects of an educational planetary plate graphic on meat consumption in aStanford University dining hall: a randomized controlled trial.** *BMC nutrition*  
Macone, A. L., Darmstadt, G. L., Challamel, G. A., Mathur, M. B., Gardner, C. D.  
2023; 9 (1): 106
- **Sensitivity analysis for the interactive effects of internal bias and publication bias in meta-analyses** *RESEARCH SYNTHESIS METHODS*  
Mathur, M. B.  
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- **A Specific Carbohydrate Diet Virtual Teaching Kitchen Curriculum Promotes Knowledge and Confidence in Caregivers of Pediatric Patients with Inflammatory Bowel Disease.** *Nutrients*  
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- **Exogenous female sex steroid hormones and new-onset asthma in women: a matched case-control study** *BMC MEDICINE*  
Zhang, G., Basna, R., Mathur, M. B., Lasser, C., Mincheva, R., Ekerljung, L., Wennergren, G., Radinger, M., Lundback, B., Kankaanranta, H., Nwaru, B. I.  
2023; 21 (1): 337
- **Effect Measure Modification by Covariates in Mediation: Extending Regression-based Causal Mediation Analysis.** *Epidemiology (Cambridge, Mass.)*  
Li, Y., Mathur, M. B., Solomon, D. H., Ridker, P. M., Glynn, R. J., Yoshida, K.  
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- **A Social Media-Based Public Health Campaign to Reduce Indoor Tanning in High-Risk Populations.** *AJPM focus*  
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- **Is There Evidence of P-Hacking in Imaging Research?** *CANADIAN ASSOCIATION OF RADIOLOGISTS JOURNAL-JOURNAL DE L ASSOCIATION CANADIENNE DES RADIOLOGISTES*  
Rooptai, P., Islam, N., Salameh, J., Ebrahimpzadeh, S., Kazi, A., Frank, R., Ramsay, T., Mathur, M. B., Absi, M., Khalil, A., Kazi, S., Dawit, H., Lam, et al  
2023; 74 (3): 497-507
- **New metrics for multiple testing with correlated outcomes** *FRONTIERS IN APPLIED MATHEMATICS AND STATISTICS*  
Mathur, M. B., VanderWeele, T. J.  
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- **Primary Care Physicians' Perceptions of the Effects of Being Overweight on All-cause Mortality** *EPIDEMIOLOGY*  
Mathur, M. B., Mathur, V. S. S.  
2023; 34 (3): E19-E20
- **A Brief Primer on Conducting Regression-Based Causal Mediation Analysis** *PSYCHOLOGICAL TRAUMA-THEORY RESEARCH PRACTICE AND POLICY*  
Li, Y., Yoshida, K., Kaufman, J. S., Mathur, M. B.  
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- **Variation across analysts in statistical significance, yet consistently small effect sizes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Mathur, M. B., Covington, C., VanderWeele, T. J.  
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- **Toward Open and Reproducible Epidemiology** *AMERICAN JOURNAL OF EPIDEMIOLOGY*  
Mathur, M. B., Fox, M. P.  
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- **Commentary: Quantifying the impact of bias to inform quality assessments in systematic reviews: The case of perchloroethylene and Non-Hodgkin's lymphoma.** *Global epidemiology*  
Fox, M. P., Mathur, M. B., Matthay, E. C.  
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- **Plant-based default nudges effectively increase the sustainability of catered meals on college campuses: Three randomized controlled trials** *FRONTIERS IN SUSTAINABLE FOOD SYSTEMS*  
Boronowsky, R. D. D., Zhang, A. W. W., Stecher, C., Presley, K., Mathur, M. B. B., Cleveland, D. A. A., Garnett, E., Wharton, C., Brown, D., Meier, A., Wang, M., Braverman, I., Jay, et al  
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Mathur, M. B., VanderWeele, T. J.  
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- **Using selection models to assess sensitivity to publication bias: A tutorial and call for more routine use** *CAMPBELL SYSTEMATIC REVIEWS*

- Maier, M., VanderWeele, T. J., Mathur, M. B.  
2022; 18 (3): e1256
- **Patterns of tobacco use in low and middle income countries by tobacco product and sociodemographic characteristics: nationally representative survey data from 82 countries.** *BMJ (Clinical research ed.)*  
Theilmann, M., Lemp, J. M., Winkler, V., Manne-Goehler, J., Marcus, M. E., Probst, C., Lopez-Arboleda, W. A., Ebert, C., Bommer, C., Mathur, M., Andall-Brereton, G., Bahendeka, S. K., Bovet, et al  
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  - **Correction: Mathur et al. Effectiveness of a Theory-Informed Documentary to Reduce Consumption of Meat and Animal Products: Three Randomized Controlled Experiments.** *Nutrients* 2021, 13, 4555. *Nutrients*  
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  - **Interventions that influence animal-product consumption: A meta-review** *FUTURE FOODS*  
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  - **The Effects of Exposure to Information About Animal Welfare Reforms on Animal Farming Opposition: A Randomized Experiment** *ANTHROZOOS*  
Harris, J., Ladak, A., Mathur, M. B.  
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  - **E-values for effect heterogeneity and approximations for causal interaction** *INTERNATIONAL JOURNAL OF EPIDEMIOLOGY*  
Mathur, M. B., Smith, L. H., Yoshida, K., Ding, P., VanderWeele, T. J.  
2022; 51 (4): 1268-1275
  - **Assessing Uncontrolled Confounding in Associations of Being Overweight With All-Cause Mortality** *JAMA NETWORK OPEN*  
Mathur, M. B., VanderWeele, T. J.  
2022; 5 (3): e222614
  - **The puzzling relationship between multi-laboratory replications and meta-analyses of the published literature.** *Royal Society open science*  
Lewis, M., Mathur, M. B., VanderWeele, T. J., Frank, M. C.  
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  - **How to report E-values for meta-analyses: Recommended improvements and additions to the new GRADE approach** *ENVIRONMENT INTERNATIONAL*  
Mathur, M. B., VanderWeele, T. J.  
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  - **Effectiveness of a Theory-Informed Documentary to Reduce Consumption of Meat and Animal Products: Three Randomized Controlled Experiments.** *Nutrients*  
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  - **Multiple-bias Sensitivity Analysis Using Bounds** *EPIDEMIOLOGY*  
Smith, L. H., Mathur, M. B., VanderWeele, T. J.  
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  - **Religious Coping With Interpersonal Hurts: Psychosocial Correlates of the Brief RCOPE in Four Non-Western Countries** *PSYCHOLOGY OF RELIGION AND SPIRITUALITY*  
Voytenko, V. L., Pargament, K., Cowden, R. G., Lemke, A. W., Kurniati, N., Bechara, A., Joynt, S., Tymchenko, S., Khalanskyi, V. V., Shtanko, L., Kocum, M., Korzhov, H., Mathur, et al  
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  - **Meta-regression methods to characterize evidence strength using meaningful-effect percentages conditional on study characteristics** *RESEARCH SYNTHESIS METHODS*  
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Mathur, M. B., VanderWeele, T. J.  
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- **Infant Allergy Testing and Food Allergy Diagnoses Before and After Guidelines for Early Peanut Introduction.** *The journal of allergy and clinical immunology. In practice*  
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- **Controversy and debate on credibility ceilings. Paper 1: Fundamental problems with the "credibility ceiling" method for meta-analyses** *JOURNAL OF CLINICAL EPIDEMIOLOGY*  
Mathur, M. B., Vander Weele, T. J.  
2020; 127: 208-210
- **E-values and Incidence Density Sampling** *EPIDEMIOLOGY*  
VanderWeele, T. J., Martin, J. N., Mathur, M. B.  
2020; 31 (6): E51-E52
- **Controversy and debate on credibility ceilings. Paper 3: errors in the statistical justification for the "credibility ceiling" method remain uncorrected** *JOURNAL OF CLINICAL EPIDEMIOLOGY*  
Mathur, M. B., Vander Weele, T. J.  
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- **Commentary: Developing best-practice guidelines for the reporting of E-values** *INTERNATIONAL JOURNAL OF EPIDEMIOLOGY*  
VanderWeele, T. J., Mathur, M. B.  
2020; 49 (5): 1495-1497
- **Assessing the impact of unmeasured confounders for credible and reliable real-world evidence.** *Pharmacoepidemiology and drug safety*  
Zhang, X., Stamey, J. D., Mathur, M. B.  
2020
- **Many Labs 5: Registered Multisite Replication of the Tempting-Fate Effects in Risen and Gilovich (2008)** *ADVANCES IN METHODS AND PRACTICES IN PSYCHOLOGICAL SCIENCE*  
Mathur, M. B., Bart-Plange, D., Aczel, B., Bernstein, M. H., Ciunci, A. M., Ebersole, C. R., Falcao, F., Ashbaugh, K., Hilliard, R. A., Jern, A., Kellier, D. J., Kessinger, G., Kolb, et al  
2020; 3 (3): 394-404
- **Many Labs 5: Testing Pre-Data-Collection Peer Review as an Intervention to Increase Replicability** *ADVANCES IN METHODS AND PRACTICES IN PSYCHOLOGICAL SCIENCE*  
Ebersole, C. R., Mathur, M. B., Baranski, E., Bart-Plange, D., Buttrick, N. R., Chartier, C. R., Corker, K. S., Corley, M., Hartshorne, J. K., IJzerman, H., Lazarevic, L. B., Rabagliati, H., Ropovik, et al  
2020; 3 (3): 309-331
- **Rejoinder: The Future of Outcome-Wide Studies** *STATISTICAL SCIENCE*  
VanderWeele, T. J., Mathur, M. B., Chen, Y.  
2020; 35 (3): 479-483
- **New statistical metrics for multisite replication projects** *JOURNAL OF THE ROYAL STATISTICAL SOCIETY SERIES A-STATISTICS IN SOCIETY*  
Mathur, M. B., VanderWeele, T. J.  
2020; 183 (3): 1145-1166
- **How to Apply Multiple Imputation in Propensity Score Matching with Partially Observed Confounders: A Simulation Study and Practical Recommendations** *JOURNAL OF MODERN APPLIED STATISTICAL METHODS*  
Ling, A., Montez-Rath, M., Mathur, M., Kapphahn, K., Desai, M.  
2020; 19 (1)
- **Robust Metrics and Sensitivity Analyses for Meta-analyses of Heterogeneous Effects** *EPIDEMIOLOGY*  
Mathur, M. B., VanderWeele, T. J.  
2020; 31 (3): 356-358

- **Evidence Relating Health Care Provider Burnout and Quality of Care** *ANNALS OF INTERNAL MEDICINE*  
Mathur, M. B., VanderWeele, T. J.  
2020; 172 (6): 437-438
- **A Simple, Interpretable Conversion from Pearson's Correlation to Cohen's for  $d$  Continuous Exposures** *EPIDEMIOLOGY*  
Mathur, M. B., VanderWeele, T. J.  
2020; 31 (2): E16-E18
- **Uncanny but not confusing: Multisite study of perceptual category confusion in the Uncanny Valley** *COMPUTERS IN HUMAN BEHAVIOR*  
Maya, M. B., Reichling, D. B., Lunardini, F., Geminiani, A., Antonietti, A., Ruijten, P. A. M., Levitan, C. A., Nave, G., Manfredi, D., Bessette-Symons, B., Szuts, A., Aczel, B.  
2020; 103: 21-30
- **Reducing meat consumption by appealing to animal welfare: protocol for a meta-analysis and theoretical review.** *Systematic reviews*  
Mathur, M. B., Robinson, T. N., Reichling, D. B., Gardner, C. D., Nadler, J., Bain, P. A., Peacock, J.  
2020; 9 (1): 3
- **Dialysis Initiation and All-Cause Mortality Among Incident Adult Patients With Advanced CKD: A Meta-analysis With Bias Analysis.** *Kidney medicine*  
Fu, R. n., Sekercioglu, N. n., Mathur, M. B., Couban, R. n., Coyte, P. C.  
2020; 3 (1): 64–75.e1
- **Open-source software for mouse-tracking in Qualtrics to measure category competition** *BEHAVIOR RESEARCH METHODS*  
Mathur, M. B., Reichling, D. B.  
2019; 51 (5): 1987-1997
- **Challenges and Suggestions for Defining Replication "Success" When Effects May Be Heterogeneous: Comment on Hedges and Schauer (2019)** *PSYCHOLOGICAL METHODS*  
Mathur, M. B., VanderWeele, T. J.  
2019; 24 (5): 571-575
- **Media Portrayals and Public Health Implications for Suicide and Other Behaviors** *JAMA PSYCHIATRY*  
VanderWeele, T. J., Mathur, M. B., Chen, Y.  
2019; 76 (9): 891-892
- **SOME DESIRABLE PROPERTIES OF THE BONFERRONI CORRECTION: IS THE BONFERRONI CORRECTION REALLY SO BAD?** *AMERICAN JOURNAL OF EPIDEMIOLOGY*  
VanderWeele, T. J., Mathur, M. B.  
2019; 188 (3): 617-618
- **Missing data strategies for time-varying confounders in comparative effectiveness studies of non-missing time-varying exposures and right-censored outcomes.** *Statistics in medicine*  
Desai, M. n., Montez-Rath, M. E., Kapphahn, K. n., Joyce, V. R., Mathur, M. B., Garcia, A. n., Purington, N. n., Owens, D. K.  
2019
- **Data availability, reusability, and analytic reproducibility: evaluating the impact of a mandatory open data policy at the journal Cognition** *ROYAL SOCIETY OPEN SCIENCE*  
Hardwicke, T. E., Mathur, M. B., MacDonald, K., Nilsonne, G., Banks, G. C., Kidwell, M. C., Mohr, A., Clayton, E., Yoon, E. J., Tessler, M., Lenne, R. L., Altman, S., Long, et al  
2018; 5 (8)
- **Higher Absolute Lymphocyte Counts Predict Lower Mortality from Early-Stage Triple-Negative Breast Cancer** *CLINICAL CANCER RESEARCH*  
Afghahi, A., Purington, N., Han, S. S., Desai, M., Pierson, E., Mathur, M. B., Seto, T., Thompson, C. A., Rigdon, J., Telli, M. L., Badve, S. S., Curtis, C. N., West, et al  
2018; 24 (12): 2851–58
- **Higher Absolute Lymphocyte Counts Predict Lower Mortality from Early-Stage Triple-Negative Breast Cancer.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Afghahi, A. n., Purington, N. n., Han, S. S., Desai, M. n., Pierson, E. n., Mathur, M. B., Seto, T. n., Thompson, C. A., Rigdon, J. n., Telli, M. L., Badve, S. S., Curtis, C. n., West, et al

2018

- **R Function for Additive Interaction Measures** *EPIDEMIOLOGY*  
Mathur, M. B., VanderWeele, T. J.  
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