

**Tyler J. VanderWeele**  
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July 2020

**Education:**

Ph.D., Biostatistics, Harvard University, 2006  
A.M., Biostatistics, Harvard University, 2005  
M.A., Mathematics, University of Oxford, 2005  
M.A., Finance and Applied Economics, Wharton School, University of Pennsylvania, 2002  
B.A., Philosophy and Theology, University of Oxford, 2000  
B.A., Mathematics, University of Oxford, 2000  
Gibb's Prize for Mathematical Sciences, University of Oxford, Ranked first amongst over one hundred students in the Final Honour School Examinations

**Primary Academic Appointments:**

2018-Present John L. Loeb and Frances Lehman Loeb Professor of Epidemiology, Harvard University  
2013-2017 Professor, Harvard University, Departments of Epidemiology and Biostatistics  
2009-2013 Associate Professor, Harvard University, Departments of Epidemiology and Biostatistics  
2006-2009 Assistant Professor, University of Chicago, Department of Health Studies

**Other Academic Appointments:**

2019-2020 George Eastman Visiting Professor, University of Oxford, Balliol College  
2016-Present Director, Human Flourishing Program, Harvard University  
2014-Present Co-Director, Initiative on Health, Religion and Spirituality, Harvard University  
2013-Present Member, Dana-Farber/Harvard Cancer Center  
2010-Present Faculty Associate, Institute of Quantitative Social Science, Harvard University  
2010-Present Faculty Member, Program in Quantitative Genomics, Harvard University  
2009-Present Faculty Member, Program on Causal Inference, Harvard School of Public Health  
2009 August Visiting Associate Professor, University of Chicago, Department of Health Studies

## **Honorary Degrees:**

2020 Doctor of Humane Letters, Catholic University of America

## **Awards and Honors:**

2017 Presidents' Award, Committee of Presidents of Statistical Societies (COPSS)  
2017 John Snow Award, American Public Health Association  
2014 Elected Fellow of the American Statistical Association  
2014 Mortimer Spiegelman Award, American Public Health Association  
2013 Raymond Carroll Young Investigator Award, Texas A&M University  
2012 Rising Star Award, Society of Pediatric and Perinatal Epidemiologic Research  
1999 Gibb's Prize for Mathematical Sciences, University of Oxford

## **Editorial Activities:**

### Epidemiology Journals:

Editorial Board, *Epidemiology*, 2009-Present  
Co-Founder and Editor, *Epidemiologic Methods*, 2010-2020  
Associate Editor, *American Journal of Epidemiology*, 2013-2017

### Medicine and Public Health Journals:

Statistical Editor, *JAMA Psychiatry*, 2019-Present  
Guest Editor, *American Journal of Public Health*, Section on Religion and Public Health, 2017-2019

### Statistics Journals:

Editorial Board, *Journal of Causal Inference*, 2011-Present  
Associate Editor, *Journal of the Royal Statistical Society, Series B*, 2014-2017  
Associate Editor, *Annals of Statistics*, 2011-2015  
Associate Editor, *Statistics and Probability Letters*, 2010-2012  
Associate Editor, *Statistics in Biosciences*, 2010-2012  
Editorial Board, *International Journal of Biostatistics*, 2010-2012

### Social Science Journals:

Guest Editor, *Proceedings of the National Academy of Sciences, U.S.A*, Social Sciences, 2019-2020  
Editorial Board, *Sociological Methods and Research*, 2012-Present

### Well-Being Journals:

Editorial Advisor, *International Journal of Wellbeing*, 2020-Present  
Editorial Board, *Journal of Positive Psychology and Wellbeing*, 2019-Present

## **Advisory Boards:**

Advisory Board Member, McHugh Program for Human Flourishing, Johns Hopkins, 2015-Present  
Advisory Board Member, The John Templeton Foundation, 2014-2016

## **Consulting:**

September 2017 – September 2018	Aetna Inc.
August 2015 – December 2016	Analysis Group
September 2014 – March 2015	Johnson & Johnson
October 2013 – December 2013	Millennium Pharmaceuticals
January 2010 – December 2010	National Institute of Child Health and Human Development
October 2007 – June 2010	Hektoen Institute of Medicine
March 2007 – June 2008	Endurance International Group
August 2006 – December 2006	Claristat Business Analytics
July 2001 – June 2003	Children's Hospital of Philadelphia

## **Research Support:**

Active:

Religion and Human Flourishing - New Empirical Approaches. Tyler J. VanderWeele, PI. John Templeton Foundation Grant 61075. Project Period: February 1, 2019 – January 31, 2022. 25% effort. Principal Investigator. \$1,226,926.

Theory and Methods for Mediation and Interaction. Tyler J. VanderWeele, PI. Eric Tchetgen Tchetgen, Co-PI. National Cancer Institute R01CA222147. Project Period: February 19, 2018 – January 31, 2023. Principal Investigator. \$2,075,570.

Aetna Well-Being Research Collaboration. Tyler J. VanderWeele and Eileen McNeely, PIs. Aetna Inc. Project Period: November 15, 2017 – November 14, 2022. Principal Investigator. \$4,753,584.

Human Flourishing Program Expansion. Tyler J. VanderWeele, PI. Project Period: July 1, 2020 – June 30, 2023. Kern Family Foundation. Principal Investigator. \$1,316,903.

Building More Forgiving Communities around the Globe. Man Yee Ho, PI. Templeton World Charity Foundation. Grant TWCF0390. Project Period: May 1, 2019- April 30, 2022. \$999,986. Co-Funding from the Human Flourishing Program, Harvard University: \$200,000. 10% effort. Co-Investigator. \$1,199,986.

Global Flourishing Study Planning Grant. Byron Johnson, PI. Tyler J. VanderWeele, Co-PI. John Templeton Foundation Grant 61907. Project Period: January 1, 2020 – June 30, 2020. 25% effort. Co-Principal Investigator. \$234,800.

Accelerating Transdisciplinary Epidemiology: Colorectal Cancer Omics and Immunity. Shuji Ogino, PI. National Institutes of Health. Project Period: August 1, 2017 – July 31, 2022. Co-Investigator. 5% effort.

Completed – As Principal Investigator:

Theory and Methods for Sufficient Cause Interactions. Tyler J. VanderWeele, PI. National Institutes of Health R56 ES017876. Project Period: October 1, 2016-September 30, 2018. Principal Investigator. 20% Effort. \$150,000.

Advancing Health, Religion, and Spirituality Research from Public Health to End of Life. Tracy Balboni, PI. Tyler J. VanderWeele, Co-PI. John Templeton Foundation Grant 52125. Project Period: February 1, 2016 – January 31, 2019. Co-Principal Investigator. 30% effort. \$2,104,202.

Identification and Inference for Longitudinal Causal Mediation Analysis in HIV. Eric Tchetgen Tchetgen, PI. Ilya Shpitser, Tyler J. VanderWeele Co-PIs. National Institutes of Health R01 AI104459. Project Period: June 1, 2013 – May 31, 2019. Co-Principal Investigator. 15% effort. \$1,994,525.

Promoting Research on Religion and Public Health. Tyler J. VanderWeele, PI. Templeton Foundation. Project Period: February 1, 2012 – January 31, 2015. Principal Investigator. 10% effort. \$132,084.

Theory and Methods for Sufficient Cause Interactions. Tyler J. VanderWeele, PI. National Institutes of Health R01 ES017876. Project Period: April 1, 2010-January 31, 2017. Principal Investigator. \$1,230,465.

Bounds for Direct and Indirect Effects with Application to Perinatal Epidemiology. Tyler J. VanderWeele, PI. National Institutes of Health R03 HD060696. Project Period: July 1, 2010- June 30, 2012. Principal Investigator. \$163,023.

Completed – As Co-Investigator:

Societal and Intergenerational Impact of War: A Prospective Longitudinal Study. Theresa Betancourt, PI. National Institutes of Health. Project Period: September 1, 2012 – August 31, 2019. Co-Investigator. 5% effort.

National Spirituality and Health Consortium. Alexandra Shields, PI. John Templeton Foundation. Project Period March 1, 2016 – February 28, 2019. Co-Investigator. 3% effort.

A Culture of Health (COH): A Business Leadership Imperative. Howard Koh, PI. Robert Wood Johnson Foundation. Co-Investigator. 3% effort.

Statistical informatics in cancer research. Xihong Lin, PI. National Institutes of Health. P01 CA134294. Project Period: July 1, 2013 – June 30, 2018. Co-investigator. 10% effort.

Expanding the Inclusion of Spirituality/Religiosity Measures within National Cohort Studies in the US. Alexandra Shields, PI. John Templeton Foundation Project Period: February 1, 2014 – January 31, 2017. Co-Investigator. 7% effort.

Mammographic Density and Texture features in relation to breast cancer risk. Rulla Tamimi, PI. National Institutes of Health R01 CA175080. Project Period: October 1, 2013 – June 30, 2017. Co-Investigator / Principal Investigator of Subcontract to HSPH. 10% effort.

Transforming neglect and hostility to engagement and hospitality: An interdisciplinary foundation for a future program on religion, health and medicine. Michael Balboni, PI. Templeton Foundation. Project Period: February 1, 2013-January 31, 2016. 3% effort.

Semiparametric Methods for Gene-environment Interaction. Eric Tchetgen Tchetgen, PI. National Institutes of Health R01 ES020337. Project Period: July 20, 2012 – April 30, 2016. Co-Investigator. 10% effort.

Statistical methods for correlated and high-dimensional biomedical data. Xihong Lin, PI. National Institutes of Health. R37 CA076404-11. Project Period: June 1, 2007 – May 31, 2015. Co-investigator. 5% effort.

A National Faith Community Atlas on End-of-Life Spiritual Care: Informing a Religious Community Educational Intervention to Address End-of-Life Cancer Disparities. Michael Balboni, PI. National Institutes of Health. Project Period: July 1, 2013 – June 30, 2015. 3% effort.

Community Based Accompaniment with Supervised Antiretroviral in Peru. Sonya Shin, PI. National Institutes of Health. March 1, 2013 – February 28, 2015. Co-Investigator. 5% effort.

Hospital chaplaincy and medical outcomes at the end of life. Tracy Balboni, PI. HealthCare Chaplaincy. Project Period: July 1, 2012-December 31, 2013. Co-investigator. 5% effort.

Building capacity for evaluating group-level interventions. Stephen Raudenbush, PI. William T. Grant Foundation. Project Period: January 1, 2009 – December 31, 2009. Co-investigator, 10% effort.

Re-engineering translational research at the University of Chicago. Julian Solway, PI. National Institutes of Health U54 RR023560. Project Period: September 17, 2007 – July 3, 2009. 10% effort.

Prenatal care: wise, wasteful, or misunderstood?, John D. Lantos and Diane S. Lauderdale, PIs. Robert Wood Johnson Investigator Award in Health Policy Research. Project Period: March 1, 2007 – February 28, 2010. Co-investigator, 20% effort.

Exploring the effects and causal pathways of prenatal care. John D. Lantos, PI. Chicago Center of Excellence in Health Promotion Economics Pilot Grant. Project Period: November 1, 2006-October 31, 2007. Co-investigator.

Clinical research training program. Fredric L. Coe, PI. National Institutes of Health 5K30 HL04093-02. Project Period: September 1, 2006 – September 16, 2007. Co-investigator, Seminar Director, 15% effort.

### **Teaching - Harvard University:**

Quantitative Methods for Population Health Sciences (PHS2000)  
Taught in 2016-2020

Religion, Well-Being, and Public Health (EPI230)  
Taught in 2015, 2017, 2019

Study Design in Epidemiologic Research (EPI203)  
Taught in 2012-2016

Methods for Mediation and Interaction (ID542)  
Taught in 2012, 2014, 2015

Research Workshop in Applied Statistics (GOV3009)  
Taught in 2010-2019

### **Teaching - University of Chicago:**

Introduction to Biostatistics  
Taught in 2008, 2009

Causal Inference  
Taught in 2007, 2008, 2009

Theory and Methods for Multivariate and Longitudinal Data  
Taught in 2008

Clinical Research Training Program Seminar  
Taught in 2006, 2007

### **Dissertation and Research Advising:**

Harvard University – Post-doctoral Advising:

Post-doctoral Advisor for Katelyn Long, Department of Epidemiology, 2019-Present

Post-doctoral Advisor for Maya Mathur, Department of Epidemiology, 2018-2019

Post-doctoral Advisor for Jill Roncarati, Department of Social and Behavioral Sciences, 2017-2019

Post-doctoral Advisor for Ying Chen, Department of Epidemiology, 2016-2018

Post-doctoral Advisor for Donald Frederick, Institute for Quantitative Social Science, 2016-2018

Post-doctoral Advisor for Shanshan Li, Department of Epidemiology, 2015-2016

Post-doctoral Advisor for Peng Ding, Department of Epidemiology, 2015-2016

Post-doctoral Advisor for John Jackson, Department of Epidemiology, 2014-2016

Post-doctoral Advisor for Elizabeth Ogburn, Department of Epidemiology, 2011-2013

Harvard University – Post-doctoral Co-Advising:

Post-doctoral Co-Advisor for Joanna Hong, Human Flourishing Program, 2020-Present  
Post-doctoral Co-Advisor for Koichiro Shiba, Human Flourishing Program, 2020-Present  
Post-doctoral Co-Advisor for Renae Wilkinson, Human Flourishing Program, 2020-Present

Harvard University – Doctoral Advising:

Co-advisor for Louisa Smith, Department of Epidemiology, 2018-Present  
Doctoral Advisor for Maya Mathur, Department of Biostatistics, 2017-2018  
Doctoral Advisor for Jaffer Zaidi, Department of Biostatistics, 2016-2019  
Doctoral Advisor for Sheng-Hsuan Lin, Department of Epidemiology, 2014-2016  
Doctoral Advisor for Adam Sullivan, Department of Biostatistics, 2011-2015  
Doctoral Advisor for Linda Valeri, Department of Biostatistics, 2010-2012  
Co-advisor for Elizabeth Ogburn, Department of Biostatistics, 2010-2011

Doctoral and post-doctoral advisees have taken faculty positions at Johns Hopkins University, Stanford University, University of California Berkeley, Brown University, Columbia University, Harvard Medical School, Boston University, and National Taiwan University.

Masters thesis, undergraduate thesis, visiting student, and doctoral dissertation committee research advising for an additional 24 students.

**Selected Departmental, School, and University Service:**

2020-Present Director, Population Health Sciences PhD Program, Harvard School of Public Health  
2017-2018 Faculty Hiring Planning Committee, Department of Biostatistics  
2017-2018 Inclusion and Belonging Task Force, Survey Development Workgroup, Harvard University  
2014-Present University Committee on Rights and Responsibilities, Harvard University  
2011-Present Chair, Methods Graduate Admissions Committee, Department of Epidemiology  
2015-2017 Methods Qualifying Exam Committee, Department of Epidemiology  
2015-2016 Chair, Population Health Science PhD Curriculum Committee on Quantitative Research Methods, Harvard School of Public Health  
2011-2014 Seminar Coordinator, Series on Religion and Public Health, Department of Epidemiology  
2010 Committee on Epidemiologic Methods Curriculum Review, Department of Epidemiology  
2009-Present Admissions Committee, Department of Epidemiology  
2009-2013 Seminar Coordinator, Series on Causal Inference, Departments of Epidemiology and Biostatistics  
2009 Committee on Curriculum Integration of Epidemiology and Biostatistics

**Keynote Addresses and Named Lectureships:**

(Selected from over 300 national and international invited seminars, presentations, and public lectures)

International Epidemiological Association (IEA) World Congress of Epidemiology, Keynote Address. Unifying bias analysis in epidemiology. September 3-6, 2021. Melbourne, Australia.

Symposium on Spiritual, Pastoral and Ethical Dimensions of Health Care, University of Divinity, Keynote Address. On the promotion of human flourishing. September, 2021. Melbourne, Australia.

Canterbury Institute, Annual Lecture. On the promotion of human flourishing. May 22, 2020. Oxford, UK.

Global Meeting on Spirituality and Mental Health, Keynote Address. Religious communities and human flourishing. March 29-30, 2019. Juiz de Fora, Brazil.

Armand Nicholi, Jr. and Ingrid Nicholi Endowed Lecture, Massachusetts General Hospital, Department of Psychiatry. Religion and mental health. November 29, 2018. Boston, MA.

Thomas R. Ten Have Symposium on Statistics in Mental Health, Keynote Address. Mediation, interaction and causation in the associations between religious service attendance and suicide. June 7, 2018. Chicago, IL.

Conference on Religion and Medicine, Plenary Address. Empirical foundations of religion and medicine. April 13-15, 2018. St. Louis, MO.

Harland Austin Memorial Lecture, Department of Epidemiology, Emory University. Sensitivity analysis in observational research: introducing the E-value. October 27, 2017. Atlanta, GA.

United States Air Force Chaplains Summit, Keynote Address. Religious communities, health, and well-being. March 28-30, 2017. San Antonio TX.

Conference on Medicine and Religion, Keynote Address. Associations between religious service attendance and mortality, depression, and suicide: Is it causal? What are the mechanisms? March 24-26, 2017. Houston, TX.

David Schottenfeld Lecture, University of Michigan. A unification of mediation and interaction: a four-way decomposition. July 13, 2016. Ann Arbor, MI.

Centers for Disease Control and Prevention Statistics Day, Keynote Address. A unification of mediation and interaction: a four-way decomposition. September 8, 2015. Atlanta, GA.

Netherlands Institute for Health Sciences, Erasmus University, Commencement Address. Advice to Young Scientists. August 28, 2015. Rotterdam, The Netherlands.

John C. Cassel Memorial Lecture, Society for Epidemiologic Research. How to reduce health disparities? Upon what to intervene? Methodological considerations in social epidemiology. June 23-27, 2014. Seattle WA.



Raymond J. Carroll Young Investigator Award Lecture, Department of Statistics, Texas A&M University. Surrogate measures and consistent surrogates. February 20, 2014. College Station, TX.

Häendel School of Modern Epidemiology, Martin-Luther-University Halle-Wittenberg. Methods for mediation and interaction. September 30 – October 3, 2013. Halle, Germany.

Bradford Hill Memorial Lecture, London School of Hygiene and Tropical Medicine. Surrogate outcomes and consistent surrogates. May 24, 2013. London, England.

Conference on Causal Mechanisms, Keynote Address. Varieties of sensitivity analysis for direct and indirect effects. January 28-29, 2013. Ghent, Belgium.

Erasmus Epidemiology Doctoral Alumni Dinner, Keynote Address. Social connections: new frontiers in epidemiology Erasmus University. December 1, 2011. Rotterdam, The Netherlands.

### **Conference Organizing:**

Interdisciplinary Conference on Meaning of Life. Human Flourishing Program, Harvard University. Conference Organizer. April 19-20, 2019. Cambridge, MA.

Interdisciplinary Workshop on Measuring Well-Being. Lee Kum Shueng Center for Health and Happiness and Human Flourishing Program, Harvard University. Conference Organizer. April 5-6, 2018. Boston, MA.

Interdisciplinary Conference on “The Enigma of Suffering”. Boston College, Australian Catholic University, and Human Flourishing Program, Harvard University. Conference Co-Organizer. January 3-6, 2017. Rome, Italy.

Advancing Health, Religion, and Spirituality from Public Health to End of Life: Current Research and Critical Issues of Practice. Harvard Medical School and Harvard T.H. Chan School of Public Health. Symposium Co-Organizer. December 2, 2016. Boston, MA.

Atlantic Causal Inference Conference. Harvard University. Conference Organizer. May 20-21, 2013. Cambridge, MA.

Conference on Methods for Causal Mechanisms. Harvard University Institute of Quantitative Social Science. Conference Co-Organizer. March 24, 2012. Cambridge, MA.

### **Media Coverage:**

Research covered in *New York Times*, *USA Today*, *Washington Post*, *Chicago Tribune*, *Wall Street Journal*, *TIME Magazine*, *US News and World Report*, *The Economist*, *CBS*, *CNN*, *BBC*, *Harvard Magazine*, *Harvard Crimson*, and *Harvard Public Health Magazine*.

## Books:

Koenig, H.K., Peteet, J.R., and VanderWeele, T.J. *Handbook of Religion and Health*, 3<sup>rd</sup> Edition. Oxford University Press: New York. Expected publication in 2022.

Lash, T.L., VanderWeele, T.J., Haneuse, S., and Rothman, K.J. *Modern Epidemiology*, 4<sup>th</sup> Edition. Lippincott Williams & Wilkins. Expected publication in 2021.

Lee, M.T., Kubzansky, L.D., and VanderWeele, T.J. (2020). *Measuring Well-Being*. Oxford University Press; New York NY, in press.

VanderWeele, T.J. (2015). *Explanation in Causal Inference: Methods for Mediation and Interaction*. Oxford University Press; New York, NY.

## Articles in Peer-Reviewed Journals: (Of 350 Papers: 172 First or Single Author; 106 Last/Senior Author)

### *Methodological Contributions in Statistics Journals (70 Papers)*

(1) VanderWeele, T.J., Mathur, M.B., and Chen, Y. Outcome-wide longitudinal designs for causal inference: a new template for empirical studies. *Statistical Science*, in press.

(2) VanderWeele, T.J., Mathur, M.B., and Chen, Y. The future of outcome-wide studies. *Statistical Science*, in press.

(3) VanderWeele, T.J., Optimal approximate conversions of odds ratios and hazard ratios to risk ratios. *Biometrics*, in press.

(4) Zaidi, J. and VanderWeele, T.J. On the identification of individual level principal stratum direct, natural direct and pleiotropic effects without cross-world independence assumptions. *Scandinavian Journal of Statistics*, in press.

(5) Zaidi, J. and VanderWeele, T.J. Sufficient cause interactions for categorical and ordinal outcomes. *Statistica Sinica*, in press.

(6) Mathur, M. and VanderWeele, T.J. (2020) New statistical metrics for multisite replication projects. *Journal of the Royal Statistical Society, Series A*, in press.

(7) Mathur, M. and VanderWeele, T.J. (2020). Sensitivity analysis for unmeasured confounding in meta-analyses. *Journal of the American Statistical Association*, 115:163-172.

(8) VanderWeele, T.J. (2020). Hill's causal considerations and the potential outcomes framework. *Observational Studies*, 6:47-54.

- (9) Mathur, M. and VanderWeele, T.J. (2020). Discussion of: “A new standard for the analysis and design of replication studies.” *Journal of the Royal Statistical Society, Series A*, 183:451-452.
- (10) Linden, A., Mathur, M.B., and VanderWeele, T.J. (2020). Conducting sensitivity analysis for unmeasured confounding in observational studies using E-values: The evaluate package. *Stata Journal*, 20:162-175.
- (11) Mathur, M. and VanderWeele, T.J. (2019). New metrics for meta-analyses of heterogeneous effects. *Statistics in Medicine*, 3:1336-1342.
- (12) VanderWeele, T.J., Ding, P., and Mathur, M. (2019). Technical considerations in the use of the E-value. *Journal of Causal Inference*, 7(2):1-11.
- (13) VanderWeele, T.J. and Tchetgen Tchetgen, E.J. (2017). Mediation analysis with time-varying exposures and mediators. *Journal of the Royal Statistical Society, Series B*, 79:917-938.
- (14) Ding, P. VanderWeele, T.J., and Robins, J.M. (2017). Instrumental variables as bias amplifiers with general outcome and confounding. *Biometrika*, 104:291-302.
- (15) Ogburn, E.L. and VanderWeele, T.J. (2017). Vaccines, contagion, and social networks. *Annals of Applied Statistics*, 11:919-948.
- (16) Lin, S.-H., Young, J., Logan, R., and VanderWeele, T.J. (2017). Mediation analysis for a survival outcome with time-varying exposures, mediators, and confounders. *Statistics in Medicine*, 20:4153-4166.
- (17) Lin, S.-H., and VanderWeele, T.J. (2017). Interventional approach for path-specific effects. *Journal of Causal Inference*, 5(1):Article 2:1-10.
- (18) Bind, M.A., VanderWeele, T.J., Schwartz, J., and Coull, B. (2017). Quantile causal mediation analysis for longitudinal data. *Statistics in Medicine*, 20:4182-4195.
- (19) VanderWeele, T.J. (2017). Discussion of: “Beyond objective and subjective in statistics.” *Journal of the Royal Statistical Society, Series A*, 180:1021-1022.
- (20) VanderWeele, T.J. (2016). Discussion of: “Causal inference using invariant prediction: identification and confidence intervals” by J. Peters, P. Bühlmann and N. Meinshausen. *Journal of the Royal Statistical Society, Series B*, 78:995.
- (21) Forastiere, L., Mealli, F., and VanderWeele, T.J. (2016). Identification and estimation of causal mechanisms in clustered encouragement designs: disentangling bed nets using Bayesian principal stratification. *Journal of the American Statistical Association*, 111:510-525.
- (22) Ding, P., and VanderWeele, T.J. (2016). Sharp sensitivity bounds for mediation under unmeasured mediator-outcome confounding. *Biometrika*, 103:483-490.

- (23) Bind, M.A., VanderWeele, T.J., Coull, B. and Schwartz, J. (2016). Mixed-effects causal mediation analysis for longitudinal data. *Biostatistics*, 17:122-134.
- (24) Robins, J.M., VanderWeele, T.J., and Gill, R. (2015). A proof of Bell's inequality in quantum mechanics using causal interactions. *Scandinavian Journal of Statistics*, 42:329-335.
- (25) VanderWeele, T.J. (2015). Observational studies and study designs: an epidemiologic perspective. *Observational Studies*, 1:223-230.
- (26) VanderWeele, T.J., Tchetgen Tchetgen E.J., and Halloran, M.E. (2014). Interference and sensitivity analysis. *Statistical Science*, 29:687-706.
- (27) Ogburn, E.L. and VanderWeele, T.J. (2014). Causal diagrams for interference and contagion. *Statistical Science*, 29:559-578.
- (28) Ding, P. and VanderWeele, T.J. (2014). Generalized Cornfield conditions for the risk difference. *Biometrika*, 101:971-977.
- (29) Valeri, L. and VanderWeele, T.J. (2014). The estimation of direct and indirect causal effects in the presence of a misclassified binary mediator. *Biostatistics*, 15:498-512.
- (30) Valeri, L., Lin, X., and VanderWeele, T.J. (2014). Mediation analysis when a continuous mediator is measured with error and the outcome follows a generalized linear model. *Statistics in Medicine*, 33:4875-4890.
- (31) Jiang, Z., Chiba, Y., and VanderWeele, T.J. (2014). Monotone confounding, monotone treatment selection, and monotone treatment response. *Journal of Causal Inference*, 2:1-12.
- (32) Huang, Y.-T., VanderWeele, T.J., and Lin, X. (2014). Joint analysis of SNP and gene expression data in genetic association studies of complex diseases. *Annals of Applied Statistics*, 8:352-376.
- (33) VanderWeele, T.J., Hong, G., Jones, S. and Brown, J. (2013). Mediation and spillover effects in group-randomized trials: a case study of the 4R's educational intervention. *Journal of the American Statistical Association*, 108:469-482.
- (34) VanderWeele, T.J. (2013). Surrogate measures and consistent surrogates (with Discussion). *Biometrics*, 69:561-681.
- (35) VanderWeele, T.J. and Shpitser, I. (2013). On the definition of a confounder. *Annals of Statistics*, 41:196-220.
- (36) VanderWeele, T.J. and Hernán, M.A. (2013). Causal inference under multiple versions of treatment. *Journal of Causal Inference*, 1:1-20.
- (37) VanderWeele, T.J. (2013). Inference for influence over multiple degrees of separation on a social network. *Statistics in Medicine*, 32:591-596.

- (38) VanderWeele, T.J., and Emsley, R. (2013). Discussion of “Experimental design for identifying causal mechanisms.” *Journal of the Royal Statistical Society, Series A*, 176:46.
- (39) Ogburn, E.L. and VanderWeele, T.J. (2013). Bias attenuation results for nondifferentially mismeasured ordinal and coarsened confounders. *Biometrika*, 100:241-248.
- (40) Mukherjee, B., Ko, Y.A., VanderWeele, T.J., Roy, A., Park, S.K., Chen, J. (2012). Principal interactions analysis for repeated measures data: application to gene-gene, gene-environment interactions. *Statistics in Medicine*, 31:2531-2551.
- (41) Chen, J., Kang, G., VanderWeele, T.J., Zhang, C., Mukherjee, B. (2012). Efficient designs of gene-environment interaction studies: implications of Hardy-Weinberg equilibrium and gene-environment independence. *Statistics in Medicine*, 31:2516–2530.
- (42) Vansteelandt, S. and VanderWeele, T.J. (2012). Natural direct and indirect effects on the exposed: effect decomposition under weaker assumptions. *Biometrics*, 68:1019-1027.
- (43) Tchetgen Tchetgen, E.J. and VanderWeele, T.J. (2012). On causal inference in the presence of interference. *Statistical Methods in Medical Research – Special Issue on Causal Inference*, 21:55-75.
- (44) Vansteelandt, S., VanderWeele, T.J. and Robins, J.M. (2012). Semiparametric tests for sufficient cause interactions. *Journal of the Royal Statistical Society, Series B*, 74:223-244.
- (45) VanderWeele, T.J., Mukherjee, B. and Chen, J. (2012). Sensitivity analysis for interactions under unmeasured confounding. *Statistics in Medicine*, 31:2552-2564.
- (46) VanderWeele, T.J. and Richardson, T.S. (2012). General theory for interactions in sufficient cause models with dichotomous exposures. *Annals of Statistics*, 40:2128-2161.
- (47) VanderWeele, T.J. (2012). Inference for additive interaction under exposure misclassification. *Biometrika*, 99:502-508.
- (48) VanderWeele, T.J. and Tan, Z. (2012). Directed acyclic graphs with edge-specific bounds. *Biometrika*, 99:115-126.
- (49) VanderWeele, T.J. and Robins, J.M. (2012). Stochastic counterfactuals and stochastic sufficient causes. *Statistica Sinica*, 22:379-392.
- (50) VanderWeele, T.J. (2011). Controlled direct and mediated effects: definition, identification and bounds. *Scandinavian Journal of Statistics*, 38:551-563.
- (51) VanderWeele, T.J. and Shpitser, I. (2011). A new criterion for confounder selection. *Biometrics*, 67:1406-1413.
- (52) VanderWeele, T.J., Chen, Y. and Ahsan, H. (2011). Inference for causal interactions for continuous exposures under dichotomization. *Biometrics*, 67:1414-1421.

- (53) VanderWeele, T.J. (2011). Principal stratification: uses and limitations. *International Journal of Biostatistics*, 7, Article 28, 1-14.
- (54) VanderWeele, T.J. and Tchetgen Tchetgen, E.J. (2011). Effect partitioning under interference for two-stage randomized vaccine trials. *Statistics and Probability Letters – Special Issue on Statistics in Biological and Medical Sciences*, 81:861-869.
- (55) Shpitser, I. and VanderWeele, T.J. (2011). A complete graphical criterion for the adjustment formula in mediation analysis. *International Journal of Biostatistics*, 7, Article 16:1-24.
- (56) VanderWeele, T.J. (2010). Sufficient cause interactions for categorical and ordinal exposures with three levels. *Biometrika*, 97:647-659.
- (57) VanderWeele, T.J. and Robins, J.M. (2010). Signed directed acyclic graphs for causal inference. *Journal of the Royal Statistical Society, Series B*, 72:111-127.
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*Substantive Contributions in the Biomedical and Social Sciences and Other Disciplines (140 Papers)*

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