

Séminaire exceptionnel organisé conjointement par
la FR Santé Publique, Société et PhilInBioMed*

“P value and causality”

22 Mai 2018 - 11h00-16h30
Amphithéâtre Louis, ISPED - Campus Carreire

Schedule

- 11h00 **INTRODUCTION MORNING SESSION**
Dr Carole Dufouil, Inserm BPH, ISPED, University of Bordeaux
- 11h05 **P-VALUE: USE AND MISUSE**
Dr Daniel Commenges, Inserm BPH, ISPED, University of Bordeaux
- 11h35 DISCUSSION
- 11h50 **SENSITIVITY ANALYSIS IN OBSERVATIONAL RESEARCH: INTRODUCING THE E-VALUE**
Prof Tyler VanderWeele, Departments of Epidemiology and Biostatistics,
Harvard School of Public Health, Boston, USA
- 12h35 DISCUSSION
- 12h50 **CONCLUSION MORNING SESSION**
Prof Rodolphe Thiébaud, ISPED, Inserm BPH, University of Bordeaux
- 13h00 LUNCH / BUFFET
- 14h00 **INTRODUCTION AFTERNOON SESSION**
Dr Thomas Pradeu, Immunology Unit, ImmunoConcEpT (UMR5164, CNRS &
University of Bordeaux) & PhilInBioMed
- 14h10 **WHAT IS A CAUSE AND HOW CAN WE IDENTIFY IT?**
Prof Jon Williamson, University of Kent (UK)
- 14h40 **ON CAUSES, CAUSAL INFERENCE, AND POTENTIAL OUTCOMES**
Prof Tyler VanderWeele, Departments of Epidemiology and Biostatistics,
Harvard School of Public Health, Boston, USA
- 15h10 DISCUSSION on both interventions led by Prof Maël Lemoine, Professor in
Philosophy of Medicine, University of Bordeaux
- 16h10 **CONCLUSION AFTERNOON SESSION**
Prof Christophe Tzourio, Inserm BPH, ISPED, University of Bordeaux

***PhilInBioMed** is an interdisciplinary institute located at the University of Bordeaux that aims at promoting philosophy "in" the biological and medical sciences, a co-production of knowledge by the direct interactions of philosophers, biologists, and medical doctors.
<https://www.philinbiomed.org/>

Tyler J. VanderWeele, Ph.D., is the John L. Loeb and Frances Lehman Loeb Professor of Epidemiology in the Departments of Epidemiology and Biostatistics at the Harvard T.H. Chan School of Public Health, Co-Director of the Initiative on Health, Religion and Spirituality, faculty affiliate of the Harvard Institute for Quantitative Social Science, and Director of the Program on Integrative Knowledge and Human Flourishing at Harvard University. He holds degrees from the University of Oxford, University of Pennsylvania, and Harvard University in mathematics, philosophy, theology, finance and applied economics, and biostatistics. His research concerns methodology for distinguishing between association and causation in observational studies, and the use of statistical and counterfactual ideas to formalize and advance epidemiologic theory and methods. His empirical research spans psychiatric, perinatal, and social epidemiology; the science of happiness and flourishing; and the study of religion and health, including both religion and population health and the role of religion and spirituality in end-of-life care. He is the recipient of the 2017 COPSS Presidents' Award from the Committee of Presidents of Statistical Societies. He has published over two hundred and fifty papers in peer-reviewed journals, and is author of the book *Explanation in Causal Inference*, published by Oxford University Press.

Jon Williamson is Professor of Reasoning, Inference and Scientific Method at the University of Kent (UK). He has research interests in the following areas: the philosophy of causality; the foundations of probability; logics and reasoning; and the use of causality, probability and logics in AI. His books *Bayesian Nets and Causality* and *In Defence of Objective Bayesianism* develop the view that causality and probability are features of the way we represent the world, not a part of the world itself.

See <http://blogs.kent.ac.uk/jonw/> for current work.