



The Berlin Doctoral Program in Economics and Management Sciences (BD-PEMS), the Berlin School of Economics PhD Program (BSE), the Berlin Network of Labor Market Research (BeNA), the Center for Economic Policy Analysis (CEPA), the Potsdam Center for Quantitative Research (PCQR) and the Faculty of Economics and Social Sciences are proud to present a

## Joint Lecture Series on Causal Inference and Machine Learning by *Guido W. Imbens*

**Location:** University of Potsdam  
Campus Griebnitzsee | Room 3.06.H01

**Local Organizers:** Marco Caliendo, Markus Müller, Claudia Stier

**Start:** September 9, 2019 | 2.30 pm

**End:** September 11, 2019 | Noon

### About the Lecture Series

At the intersection of computer science and statistics, **machine learning** is often called the most influential advancement of this century. This lecture series will introduce machine learning in the context of empirical economic research. Particular emphasis will be given on its use for **estimating causal effects** in economics and policy-related analyses. After introducing the conceptual basis, the estimation of average treatment effects and heterogeneous treatment effects will be covered. Further, advances in experimental designs and multi-armed bandits as well as synthetic control methods and matrix completion will be part of this series.

### The Lecturer

**Guido W. Imbens** is the Applied Econometrics Professor and Professor of Economics at the **Stanford Graduate School of Business**. Being well-known for his influential work on causal inference in econometrics, he has published in the highest-ranking journals (inter alia *Econometrica*, *American Economic Review*, *Review of Economic Studies*, *Journal of the American Statistical Association*, *Biometrika*) and is a fellow of the Econometric Society and the American Academy of Arts and Sciences.

### Audience

The content is tailored towards PhD candidates and early career researchers. We kindly ask you to register via [workshop@empwifo.uni-potsdam.de](mailto:workshop@empwifo.uni-potsdam.de) by **August 1, 2019**. There will be no participation fees, but space availability is limited.

### Contact

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