

# Workshop of advanced quantitative methods in social sciences

**Professor Kosuke Imai**, Princeton University

**Professor Yong Bao**, University of Macau

**Professor Tao Li**, University of Macau

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**15:00-17:00**

**E21-G002**



Kosuke Imai is Professor in the Department of Politics and the Center for Statistics and Machine Learning at Princeton University. At Princeton, he is the founding director of the Program in Statistics and Machine Learning and an executive committee member of the Program for Quantitative and Analytical Political Science (Q-APS). Outside of Princeton, Imai is currently serving as the Vice President and the President-elect of the Society for Political Methodology. He is also Professor of Visiting Status in the Faculty of Law and Graduate Schools of Law and Politics at The University of Tokyo.

**3:00-3:30pm**

**Yong Bao** “Indirect Inference Estimation of Dynamic Panel Data Models” dynamic clustering method to effectively summarize this massive amount of product-level data.



**3:30-4:00pm**

**Tao Li** “a Bayesian model of rank estimation with random tie breakers”



**4:00-5:00pm**

**Kosuke Imai** “Measuring Trade Profiles with Two Billion Observations of Product Trade” The product composition of bilateral trade encapsulates complex relationships about comparative advantage, global production networks, and domestic politics. Yet, despite the availability of product-level trade data, most researchers rely on either the total volume of trade or certain sets of aggregated products. In this paper, we develop a new dynamic clustering method to effectively summarize this massive amount of product-level data.



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