

IPHD 7006 Institutional Research on Higher Education

NATIONAL TSING HUA UNIVERSITY

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Course Description:

This is a topic course on institutional research (IR) for iPhD student in Kinmen. We will discuss central issues regarding this field. First, we introduce the core concept of IR from the history of institutional research in the US, Europe, Australia, Korea, Japan, and other countries. Then the recent development of IR in Taiwan will be briefed. Understanding analytical tools associated conducting IR is the next main topic. In particular, we formally explore suitable empirical strategies (i.e., a variety of econometric/big data techniques) along with the search for identification, which will be very much emphasized throughout this course.

The ultimate goal of this course is to motivate PhD or master students conducting a high quality institutional research. This evidence-based process is crucial for policy makers in higher education institutions. Thereby, students will be required to initiate a new project related to IR, survey the literature, collect data, summarize basic statistics, estimate the specified model, test certain hypothesis, conduct sensitivity analysis, discuss empirical findings, propose policy suggestions, present the process regularly in class, and lastly end up with writing a formal article (ready for submission if possible).

Prerequisites:

Not necessary but statistics or equivalent graduate level econometrics is recommended

Required Reading:

I will prepare my own lecture notes for some issues but the following articles and books are closely related to IR.

- [MUST READ] Angrist, J. and Pischke J. *Mastering 'Metrics: The Path from Cause to Effect*, 2014
- Angrist, J. and A. Krueger. Empirical strategies in labor economics. In O. Ashenfelter and D. Card, editors, *Handbook of Labor Economics*, volume 3, pages 1277–1366. Elsevier Science, 1999.
- Brewer, Dominic J. and McEwan Patrick J. *Economics of Education*, Elsevier, 2010.
- Duflo. E. Schooling and Labor Market Consequences of School Construction in Indonesia: Evidence from an Unusual Policy Experiment. *The American Economic Review*, 91(4):795–813, 2001.
- Hsieh, Hsiao-Chin, Samuel S.M. Peng, S-Y Kou, Y-F Yan, Y-T Lin, Eric S. Lin, and Su-Yen Chen. One Campus, Diverse Experience: A Study on NTHU Students' Learning Experiences," *Tsinghua Journal of Education*, 35(3), 55–66, 2014. (in Chinese)
- Krueger, A. B. Inequality, too much of a good thing. Paper to the Princeton University Industrial Relations Section. Princeton, NJ: Princeton University Press, April 2002.
- Krueger, A. B. Economic Considerations and Class Size. *Economic Journal*, 2003.
- Levin, H. Mapping the Economics of Education. An Introductory Essay. *Educational Researcher*, 18(4):13–73, 1989.
- Lin, Eric S. Introduction to Institutional Research in Taiwan, CLASS, National Tsing Hua University, 2017.
- Lin, Eric S. Introduction to Institutional Research at NTHU, CLASS, National Tsing Hua University, 2017.
- Lin, Eric S. Practice of IR: Examples from NTHU, CLASS, National Tsing Hua University, 2017.
- Lin, Eric S. and Yu-Lung Lu. The Causal Effect of the Cram Schooling Timing Decision on Math Scores. *Economics Bulletin*, 30(3), 2330–2345, 2010.
- Lin, Eric S. Gender Wage Gaps by College Major in Taiwan: Empirical Evidence from 1978-2003 Manpower Utilization Survey. *Economics of Education Review*, 29(1), 156–164, 2010.

- Lin, Eric S. and Shih-Yung Chiu. Can a Doctoral Degree Be Completed Faster Overseas Than Domestically? Evidence from Taiwanese Doctorates. *Higher Education*, 68(2), 263–283, 2014.
- Lin, Eric S. and Yu-Lung Lu. The Educational Achievement of Pupils with Immigrant and Native Mothers: Evidence from Taiwan. *Asia Pacific Journal of Education*, 36(1), 48–72, 2016.
- Lin, Eric S. and Shih-Yung Chiu. Does Holding a Postdoctoral Position Bring Benefits for Advancing to Academia? *Research in Higher Education (Official journal of AIR)*, forthcoming, 2016.
- Lin, Ming-Chia, Hsiang Yu, and Eric S. Lin. Validating University Graduate Attribute Scale,” *Higher Education Evaluation and Development*, 8(1), 59–84, 2014.
- Lu, Yu-Lung, Stephen Chou and Eric S. Lin. Gender Differences in the Impact of Weight Status on Academic Performance: Evidence from Adolescents in Taiwan. *Children and Youth Services Review*, 46, 300–314, 2014.
- Sacerdote, B. Peer Effects with Random Assignment: Results for Dartmouth Roommates. *Quarterly Journal of Economics*, 681–704, 2001.
- Toutkoushian, Rob. *Economics of Higher Education*, 2016.
- Yun, Myeong-Su and Eric S. Lin. Alternative Estimators for the Gender Wage Gap by Industry: A Normalized Equation Approach. *Pacific Economic Review*, forthcoming, 2016.

References:

We will offer more references as the course progresses.

Software: You are welcome to use any econometric packages such as *STATA*, or *R*.

Grading: The final grade depends on regular (weekly or bi-weekly) in-class presentations, participation and quality of the final paper.

Presentation	60%
Participation	10%
Final Paper	30%.