

School/ Department:	Erasmus School of Economics, Econometric Institute
Project Title:	Analyzing social networks using (high-dimensional) panel data
Abstract:	<p>Panel or multi-dimensional data sets have become widely popular in economics and finance, and an important advantage of panel data is that they provide variation in two dimensions, allowing researchers to analyse the economic relations between variables in a more flexible manner. Using panel data to analyse social network is an important application, given that economic agents are typically interacted with a network structure. The goal of this PhD project is (but not limited) to study the social networks using panel data. Big data techniques and Bayesian methods may also be involved. The exact (and possibly other but related) topics of the PhD project can be decided upon in coordination with the candidate.</p> <p>The exact structure of the PhD project will depend on the background of the candidate. A standard track will be structured as follows. In the first year the candidate will take specialized high-level courses to further develop his or her skills in econometrics as well as in the application domain of interest. Furthermore, during the first year the candidate will develop a research plan for the entire PhD project. This research plan will further specify the focus of the PhD project. Finally, in the first year the candidate will start to work on a first sub-project. In the remaining three years the entire research plan will be carried out, leading to three or four manuscripts that are potentially publishable in high-quality academic journals.</p> <p>The Econometric Institute is one of the leading research groups in econometrics in Europe. The group has an opening for PhD students with an interest in econometrics. The exact topic of the PhD project will be decided upon in coordination with the candidate. Promotors are Richard Paap and Wendun Wang. The institute offers an international and friendly study and research environment. PhD students get financial support to attend international conferences and short-term research visits. Recent graduates are placed in world- wide well recognized universities/institutes or competitive companies.</p>

Requirements of candidate:	<p>Background: Econometrics/Statistics, Programming, Economics</p> <p>Master's degree: Yes</p> <p>Erasmus School of Economics (Tinbergen Institute): IELTS: 7.0 (min 6.0 for all subs.) TOEFL: 100 or 600 (paper) GMAT: 680 or GRE-test: top 10% and Q score above 160</p>
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<p>Supervisor information:</p>	<p>Prof. dr. Richard Paap Email address: paap@ese.eur.nl Personal website: https://www.eur.nl/people/richard-paap <u>Selected publication</u> W. Wang, X. Zhang & R. Paap (2019). To pool or not to pool: What is a good strategy for parameter estimation and forecasting in panel regressions? Journal of Applied Econometrics, 34 (5), 724-745. D. Nibbering, R. Paap & M. van der Wel (2018). What do professional forecasters actually predict? International Journal of Forecasting, 34 (2), 288-311. C.J.S. da Lourenço, E. Gijsbrechts & R. Paap (2015). The Impact of Category Prices on Store Price Image Formation: An Empirical Analysis. Journal of Marketing Research, 52 (2), 200-216. J.J.J. Groen, R. Paap & F. Ravazzolo (2013). Real-time Inflation Forecasting in a Changing World. Journal of Business and Economic Statistics, 31 (1), 29-44. J.E.M. van Nierop, B. Bronnenberg, R. Paap, P.H.B.F. Franses & M. Wedel (2010). Retrieving Unobserved Consideration Sets from Household Panel Data. Journal of Marketing Research, 47 (1), 63- 74. D. Fok, P.H.B.F. Franses & R. Paap (2007). Seasonality and non- linear price effects in scanner-data based market-response models. Journal of Econometrics, 138 (1), 231-251. F.R. Kleibergen & R. Paap (2006). Generalized reduced rank tests using the singular value decomposition. Journal of Econometrics, 133 (1), 97-126. D. Fok, C. Horvath, R. Paap & P.H.B.F. Franses (2006). A hierarchical Bayes error correction model to explain dynamic effects</p>
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Erasmus University Rotterdam, the Netherlands

CSC PhD 2022 Project Description

Application to: EuccChinaOffice@eur.nl (deadline: Friday Mar 4, 2022)



English requirements:

Please refer to Erasmus University China Center official website for your information www.eur.nl/eucc

Erasmus University China Center -> CSC Scholarship -> "I am a prospective CSC PhD Candidate" -> Table 1

Please note:

Each institute requires difference level of English, make sure to find the right institute. 2022 CSC-PhD programme information will be shared and updated soon!

	of price changes. Journal of Marketing Research , 43 (3), 443-461. D. Fok, C. Horvath, R. Paap & P.H.B.F. Franses (2006). A hierarchical Bayes error correction model to explain dynamic effects of price changes. Journal of Marketing Research , 43 (3), 443-461
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<p>Supervisor information:</p>	<p>Dr. Wendun Wang Email address: wang@ese.eur.nl Personal website: http://wendunwang.weebly.com/ https://www.eur.nl/people/wendun-wang</p> <p><u>Selected publication</u></p> <p>X. Leng, H. Chen, & W. Wang. Multi-dimensional latent group structures with heterogeneous distributions. Journal of Econometrics, forthcoming.</p> <p>P. Radchenko, A. Vasnev, & W. Wang. Too similar to combine? On negative weights in forecast combination. International Journal of Forecasting, forthcoming.</p> <p>P. Koh, D. Reeb, E. Sojli, W. Tham, & W. Wang. Deleting unreported innovation. Journal of Financial and Quantitative Analysis, forthcoming.</p> <p>R. Okui & W. Wang. Heterogeneous structural breaks in panel data models. Journal of Econometrics (2021), 220:447-473.</p> <p>K. Miao, L. Su, & W. Wang. Panel threshold regressions with latent group structures. Journal of Econometrics (2020), 214:451-481.</p> <p>W. Wang, X. Zhang, & R. Paap. To pool or not to pool: What is a good strategy for parameter estimation and forecasting in panel regressions? Journal of Applied Econometrics (2019), 34:724-745.</p> <p>W. Wang, & X. Zhang. Optimal model averaging estimation for partially linear models. Statistica Sinica (2019), 29:693-718.</p> <p>G. Claeskens, J. Magnus, A. Vasnev, & W. Wang. The forecast combination puzzle: A simple theoretical explanation. International Journal of Forecasting (2016), 32:754-762.</p> <p>K. Ji, J. Magnus, & W. Wang. Natural resources, institutional quality, and economic growth in China. Environmental & Resource Economics (2014), 57:323-343.</p>
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Erasmus University Rotterdam, the Netherlands
CSC PhD 2022 Project Description (proposal)
Application to: euccchinaoffice@eur.nl
Application deadline: Friday Mar 4, 2022



English requirements: Please refer to Erasmus University China Center official website for your information www.eur.nl/eucc

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