Laurent R. Bergé

May 2024

Personal information

French citizen, born 1985

✉ laurent.berge@u-bordeaux.fr
⬈ https://sites.google.com/site/laurentrberge/home

Professional address

University of Bordeaux
BSE, UMR CNRS 6060

16, avenue Léon Duguit CS 50057

33608 Pessac

FRANCE

Fields of interest: *applied micro-economics ⋆ economics of innovation ⋆ labor mobility ⋆ statistics*

1 Current Position

2020–… **Associate Professor of Economics (Maître de Conférences)**
BSE (UMR CNRS 6060), University of Bordeaux

2 Previous Positions

2016–2020 **Postdoctoral Researcher in Economics**
Department of Economics and Management, University of Luxembourg

2016 **Postdoctoral Researcher in Statistics**
MAP5 (UMR CNRS 8145), University Paris Descartes

3 Research Visits

Oct. 2013 – **Visiting Researcher in Residence**
Jan. 2014 London School of Economics, Department of Geography and Environment

4 Education

2015 **Ph.D. in Economics**, GREThA, University of Bordeaux
2010 **M.S. Economics & Statistics**, University Paris1
2009 **M.S. Economics**, University of Bordeaux
2008 **B.A. Economics**, University of Bordeaux
2006 **B.S. Mathematics**, University of Bordeaux

5 Awards

2019 Department of Economics and Management Award for Young Researchers, University of Luxembourg

2018 Martin Beckmann Award (best paper published in *Papers in Regional Science* in 2017) for the article "Network proximity in the geography of research collaboration."

6 Publications

- **How patent rights affect university science.** w/ Thorsten Doherr and Katrin Hussinger
  Industrial and Corporate Change, dtac044, 2022.

- **Unintended triadic closure in social networks: The strategic formation of research collaborations between French inventors.** w/ Nicolas Carayol, Lorenzo Cassi and Pascale Roux
  Journal of Economic Behavior and Organization, 169, 2019.

- **The Latent Topic Block Model for the co-clustering of textual interaction data.** w/ Charles Bouveyron, Marco Corneli and Pierre Latouche
  Computational Statistics and Data Analysis, 137, 2019.

- **How do inventors networks affect urban invention?** w/ Nicolas Carayol and Pascale Roux
  Regional Science and Urban Economics, 71, 2018.

- **Bridging centrality as an indicator to measure the 'bridging role' of actors in networks: An application to the European nanotechnology co-publication network.** w/ Thomas Scherngell and Iris Wanzenböck
  Journal of Informetrics, 11(4), 2017.

- **Centrality of regions in R&D networks: A new measurement approach using the concept of bridging paths.** w/ Thomas Scherngell and Iris Wanzenböck
  Regional Studies, 51(8), 2017.

- **Network proximity in the geography of research collaboration.**
  Papers in Regional Science, 96(4), 2017.
  Beckmann Award 2018 (Best PiRS paper of 2017)

- **HDclassif: An R package for model-based clustering and discriminant analysis of high-dimensional data.** w/ Charles Bouveyron and Stéphane Girard
  Journal of Statistical Software, 46(6), 2012.

7 Publications in French

- **Le déploiement du très haut débit a-t-il favorisé la numérisation des entreprises? Une évaluation du Plan France Très Haut Débit.** w/ Chloé Duvivier and Florian Léon
  La Revue Économique, 75, 2024.

8 Book Chapters

- **Bridging centrality: A new indicator for the positioning of actors in complex networks.** w/ Thomas Scherngell and Iris Wanzenböck
  In Weber (ed.): *Innovation Complexity and Policy. Contributions from 30 years of innovation policy research in Austria*, pp. 85-100, Peter Lang, Frankfurt am Main [ISBN 978-3-631-72315-9], 2017.

9 Refereed Conference Proceedings

- **Software patents and scientific publications.** w/ Thorsten Doherr and Katrin Hussinger
  Best Paper Proceedings of the Academy of Management, n°13779, 2017.

10 Working Papers

- **Efficient estimation of maximum likelihood models with multiple fixed-effects: the R package FENmlm**
  CREA Discussion papers, 13, 2018.

11 Work in Progress

- How access to knowledge shapes innovation: The case of the ARPANET. w/ Christian Fons-Rosen and Myra Mohnen

- Does job mobility increase innovation? A case study of the fall of Nortel. w/ Nicolas Jonard and Ruth Samson

12 Patents

- Method for co-clustering senders and receivers based on text or image data files. w/ Charles Bouveyron, Marco Corneli and Pierre Latouche
European Patent Office, filed 2018, EP18305896.5, PCT PCTEP2019/068011.

13 Ph.D.

Supervision.

2019–2023   Ruth Samson, on Job Mobility and Innovation. Jointly supervised with Nicolas Jonard.

PhD comitees.

2022–…   Amal Boughim (BSE)

2022–…   Kevin Souchard (BSE)

14 Grants

2020   France Stratégie, "*Retombées du déploiement du très haut débit sur les entreprises: Quels effets sur les usages numériques, l'innovation, et la performance ?*" (Evaluating the economic impact of ultra-fast broadband deployment in France)
w/ Claire Buissière, Chloé Duvivier (PI) and Florian Léon [91,000€]

15 Communications

2019   3rd Luxembourg Workshop on Innovation, Luxembourg ‖ 12th Annual Northwestern/ USPTO Conference on Innovation Economics, Chicago, USA ‖ University Paris Dauphine, Governance Analytics seminars, Paris, France

2018   2nd Luxembourg Workshop on Innovation, Luxembourg ‖ 13th European Policy for Intellectual Property conference, Berlin, Germany ‖ 4th Geography of Innovation Conference, Barcelona, Spain

2017   GREThA seminars, Bordeaux, France ‖ BETA seminars, Strasbourg, France ‖ 12th European Policy for Intellectual Property conference, Bordeaux, France ‖ 77th Academy of Management conference, Atlanta, USA ‖ 54ème colloque de l'ASRDLF, Athens, Greece ‖ 7th ZEW/MaCCI Conference on the Economics of Innovation and Patenting, Mannheim, Germany ‖ 1st Luxembourg workshop on Innovation, Luxembourg ‖ RSA annual conference, Dublin, Ireland

2016   3rd Geography of Innovation Conference, Toulouse ‖ 33èmes journées de la microéconomie appliquée, Besançon ‖ Journée R, Muséum National D'Histoire Naturelle, Paris ‖ 56th congress of the European Regional Science Association, Vienna, Austria ‖ Barcelona workshop on regional an urban economics, Barcelona, Spain

2012–2015   NetWorkshop, Pécs, Hungary ‖ 55th congress of the European Regional Science Association, Lisbon, Portugal ‖ Econ-Geo seminars, University of Utrecht, Utrecht, The Netherlands ‖ 54th congress of the European Regional Science Association, Saint-Petersburg, Russia (× 2 presentations) ‖ 53rd congress of the European Regional Science Association, Palermo, Italy ‖ Economic Geography seminars, London School of Economics, London, England ‖ 22ème Séminaire Européen des Doctorants en Économie Régionale, Bordeaux

16 Refereeing Activities

Articles. Regional Studies (× 4), Industry and Innovation (× 4), Science and Public Policy (× 1), PLoS One (× 1), Scientometrics (× 4), Tijdschrift voor economische en sociale geografie (× 1), Journal of Economics & Management Strategy (× 1), Review of Industrial Organization (× 1), Journal of Statistical Software (× 1).

Grants. Agence Nationale de la Recherche (× 1).

17 Academic Responsibilities

2021–…   Director of a special teaching program in law and economics at the University of Bordeaux
(Directeur d'étude du parcours renforcé L1 AES)

2021–…   Elected member of the scientific board of BSE, University of Bordeaux.

2018–2020   Appointed member of the scientific board of the department of economics and management (postdoc representative), University of Luxembourg

2013–2015   Elected member of the scientific board of the laboratory GREThA (PhD representative), University of Bordeaux.

18 Organization

2017–2019   Co-organizer of the 1st, 2nd and 3rd Luxembourg workshops on Innovation

2013–2014   Organizer of the first economics Ph.D. lunch seminars – GREThA, University of Bordeaux

19 Teaching Experience

2023–2024, University of Bordeaux.

Capitalism and Global Wealth	Undergraduate	24h
Introduction to economics	Undergraduate	12h
R's Shiny	Graduate	6h
Webscraping	Graduate	6h
Introduction to R	Graduate	2× 12h
Data management in R	Graduate	15h
R Programming for Environmental Economics	Graduate	15h
Introduction to Econometrics	Graduate	24h
Methodology	Undergraduate	15h

Previous experience (lectures only).

Data visualization	Graduate	6h	2022
Webscraping	Graduate	6h	2022
Mathematics for Economics	Undergraduate	18h	2021,2022
European Economics	Undergraduate	18h	2021, 2022
Introduction to R programming	PhD	15h	2018, 2019

20 Software Products: R Packages

Over 950,000 downloads as of March 2024 (CRAN downloads only).

- ⌗ **fixest** Fast and user-friendly estimation of econometric models with multiple fixed-effects.

- ⌗ **stringmagic** The easiest way to perform complex string operations compactly and efficiently.

- ⌗ **indexthis** Highly optimised algorithm to create indexes.

- ⌗ **fplot** The easiest way to plot graphs of regular/conditional/weighted distributions.

- ⌗ **hdd** Class of data allowing the easy manipulation of out of memory data sets.

- ⌗ **dreamerr** Tools to make error-handling a piece of cake.

- ⌗ **HDclassif** Tools to create coherent groups of observations based on observables (clustering).