

Laurent R. Bergé

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Personal information:

French citizen, born December 21 1985, in [Villeneuve-sur-Lot \(France\)](#)

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Fields of interest: *Applied micro-economics* ★ *Economics of innovation* ★ *Network science* ★ *Statistics*

Current Position

2021 **Associate Professor of Economics (Maître de Conférences)**
University of Bordeaux, GREThA, UMR CNRS 5113

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

2016 **External Research Fellow**
GREThA (UMR CNRS 5113), University of Bordeaux

Research Visits

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

Education

2015 **Ph.D. in Economics**, GREThA, University of Bordeaux

2010 **M.S. Economics & Statistics**, University Paris 1

2009 **M.S. Economics**, University of Bordeaux

2008 **B.A. Economics**, University of Bordeaux

2006 **B.S. Mathematics**, University of Bordeaux

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."

Publications

- [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.

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.

Refereed Conference Proceedings

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

Working Papers

- [Efficient estimation of maximum likelihood models with multiple fixed-effects: the R package FENmlm](#)
CREA Discussion papers, 13, 2018
- [How do patent rights affect university science?](#) w/ Thorsten Doherr and Katrin Hussinger
R&R
- An efficient algorithm to estimate maximum likelihood models with multiple fixed-effects
Submitted

Work in Progress

- “How access to knowledge shapes innovation: The case of the ARPANET”, w/ Christian Fons-Rosen and Myra Mohnen
- “The consequences of involuntary job mobility in the context of innovation: A case study of Nortel”, w/ Nicolas Jonard and Ruth Samson

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.

Ph.D. Supervision

2019-... Ruth Samson, on *Job Mobility and Innovation*. Jointly supervised with Nicolas Jonard.

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/ Chloé Duvivier and Florian Léon [91 ,000€]

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 || 54^{ème} colloque de l’ASRDLE, 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 || 33^{èmes} 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 || 22^{ème} Séminaire Européen des Doctorants en Économie Régionale, Bordeaux

Refereeing Activities

Regional Studies (×2), Industry and Innovation (×4), Science and Public Policy, PLoS One, Scientometrics (×4), Tijdschrift voor economische en sociale geografie, Journal of Economics & Management Strategy.

Academic Responsibilities

2018-... Appointed member of the CREA council (postdoc representative), University of Luxembourg
 2013-2015 Elected member of the scientific board of the laboratory GREThA, University of Bordeaux.

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

Teaching Experience

2018, 2019 **Introduction to R programming** (PhD level, University of Luxembourg) [Lecture, 2 × 15 hours]
 2017, 2018 **Economics and management of innovation** (Undergraduate, University of Luxembourg) [TA, 2 × 15 hours]
 2014, 2015 **Econometrics: Times series** (Undergraduate, University of Bordeaux) [TA, 5 × 15 hours]
 2014, 2015 **Macro-economics** (Undergraduate, University of Bordeaux) [TA, 7 × 15 hours]
 2014 **Econometrics: Analysis of financial times series** (Graduate, University of Bordeaux) [TA, 6 hours]
 2012 **SAS programming for data management** (Graduate, University of Bordeaux) [TA, 15 hours]
 2011 **Network simulation games** (Graduate, University of Bordeaux) [Lecture, 2 hours]
 2010, 2011 **Micro-economics** (Undergraduate, University of Bordeaux) [TA, 4 × 15 hours]
 2010, 2011 **Theory of the firm** (Undergraduate, University of Bordeaux) [TA, 4 × 15 hours]
 2010 **Informatics: C language for mathematics** (Undergraduate, University Paris 1) [TA, 15 hours]

Software Products, R Packages

Over 150,000 downloads as of November 2020.

- 🔗 **fixest** Fast and user-friendly estimation of econometric models with multiple fixed-effects.
Orders of magnitude faster than existing methods (see [benchmark](#)).
- 🔗 **fplot** 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).

References

Nicolas Carayol

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