

# Laurent R. Bergé

April 2024

## Personal information

French citizen, born 1985

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🔗 <https://sites.google.com/site/laurentrberge/home>

## Professional address

University of Bordeaux

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33608 Pessac

FRANCE

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

## 1 Current Position

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

## 2 Previous Positions

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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

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

## 4 Education

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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

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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

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- [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

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- 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*, forthcoming.

## 8 Book Chapters

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- [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

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- [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

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

## 11 Work in Progress

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- 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

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- [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.

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### 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

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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 Buisnière, Chloé Duvivier (PI) and Florian Léon [91,000€]

## 15 Communications

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- 2019 3<sup>rd</sup> Luxembourg Workshop on Innovation, Luxembourg || 12<sup>th</sup> Annual Northwestern/USPTO Conference on Innovation Economics, Chicago, USA || University Paris Dauphine, Governance Analytics seminars, Paris, France
- 2018 2<sup>nd</sup> Luxembourg Workshop on Innovation, Luxembourg || 13<sup>th</sup> European Policy for Intellectual Property conference, Berlin, Germany || 4<sup>th</sup> Geography of Innovation Conference, Barcelona, Spain
- 2017 GREThA seminars, Bordeaux, France || BETA seminars, Strasbourg, France || 12<sup>th</sup> European Policy for Intellectual Property conference, Bordeaux, France || 77<sup>th</sup> Academy of Management conference, Atlanta, USA || 54<sup>ème</sup> colloque de l’ASRDLF, Athens, Greece || 7<sup>th</sup> ZEW/MaCCI Conference on the Economics of Innovation and Patenting, Mannheim, Germany || 1<sup>st</sup> Luxembourg workshop on Innovation, Luxembourg || RSA annual conference, Dublin, Ireland
- 2016 3<sup>rd</sup> Geography of Innovation Conference, Toulouse || 33<sup>èmes</sup> journées de la microéconomie appliquée, Besançon || Journée R, Muséum National D’Histoire Naturelle, Paris || 56<sup>th</sup> congress of the European Regional Science Association, Vienna, Austria || Barcelona workshop on regional an urban economics, Barcelona, Spain

2012–2015 NetWorkshop, Pécs, Hungary || 55<sup>th</sup> congress of the European Regional Science Association, Lisbon, Portugal || Econ-Geo seminars, University of Utrecht, Utrecht, The Netherlands || 54<sup>th</sup> congress of the European Regional Science Association, Saint-Petersburg, Russia (× 2 presentations) || 53<sup>rd</sup> congress of the European Regional Science Association, Palermo, Italy || Economic Geography seminars, London School of Economics, London, England || 22<sup>ème</sup> 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).

**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 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> 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).**

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

**20 Software Products: R Packages**

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*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).