

DR. PIERRE-ALEXANDRE BALLAND

Chief Data Scientist
Centre for European Policy Studies

Associate Professor
Utrecht University

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ACADEMIC APPOINTMENTS

2023 – now	Centre for European Policy Studies Chief Data Scientist
2021 – now	Artificial and Natural Intelligence Toulouse Institute Visiting Professor
2020 – now	Utrecht University Associate Professor in Economic Geography and Complex Systems
2019 – now	DG for Research & Innovation - European Commission ESIR Expert Group
2018 – 2019	Media Lab - Massachusetts Institute of Technology (MIT) Visiting Professor
2016	University of California, Los Angeles (UCLA) Visiting Professor
2014 – 2020	Utrecht University Assistant Professor in Economic Geography and Complex Systems
2014 – 2016	Lund University Research Associate in Data Science
2010 – 2014	Utrecht University Post-Doctoral researcher
2010 – 2013	Eindhoven University of Technology Research Associate in Innovation Studies
2007 – 2010	University of Toulouse Research and Teaching Assistant

EDUCATION

2010	Ph.D. in Economics, University of Toulouse
2007	M.Sc. in Development Economics, University of Toulouse
2005	B.Sc. in Economics, University of Toulouse

GRANTS, HONOR AND AWARDS

European Projects

ST4TE – Twin Transition in Europe, *Horizon Europe* (2024-2027)
PILLARS – Pathways to Inclusive Labour Markets, *Horizon 2020* (2021-2023)
TREND – Transition with Resilience for Evolutionary Development, *Horizon 2020* (2019-2024)
Resilient Cities, *JPI Urban Europe* (2014–2017)
Smart Specialization Framework, *DG REGIO* (2017)
T-RES – Resilient Territories, *NWO-ANR-ESRC-DFG Open Research Area* (2011-2014)

Individual Awards & Scholarships

Early Career Award, *Regional Studies Association* (2015)
Big Data Grant, *Utrecht University* (2016, 2017)
Complex Systems Focus Area Grant, *Utrecht University* (2015)
Seed Money Program Award, *Utrecht University* (2014)
Strategic Collaboration Programme, *University of California, Los Angeles* (2015, 2016)
Full Doctoral Fellowship, *French Ministry of Higher Education and Research* (2007)
Master Scholarship, *Midi-Pyrénées Centre for Higher Education* (2005)

KEYNOTES (SELECTED)

KÅKÅ|nomics Festival, Stavanger, 2023 (upcoming)
European AI Conference, Vienna, 2023 (upcoming)
The Future of Economic Complexity, Harvard Kennedy School, 2023
MIT Future of Work Workshop, MIT Media Lab, 2023
Urban Economy Forum (UEF) – UN Habitat, Toronto, 2022
Week of Innovative Regions in Europe (WIRE), Paris, 2022
Seminario de Complejidad Económica, Ciudad de Mexico, 2022
Research and Innovation Days of the European Commission, Online, 2021
ERSA Annual Conference (European Regional Science Association), Online, 2020
Research and Innovation Days of the European Commission, Brussels, 2019
Asian Real Estate Society International Conference, Shenzhen, 2019
MIT China Future City Lab Conference, Hangzhou, 2019
Future City Innovation, Tianjin, 2019
Geography of Innovation and Complexity, Utrecht, 2019
Institute for New Economic Thinking, Online, 2019
World Real Estate Forum, Boston, 2018
MIT Workshop on Economic Complexity, Boston, 2018
Institute for New Economic Thinking, Online, 2017

Regional Studies Association Annual Conference, Dublin, 2017

TED Talk - TEDx University of Bordeaux, Bordeaux, 2015

OPEN SOURCE SOFTWARES & DATASETS

Balland, P.A. (2023) **EconGeo: Computing Key Indicators of the Spatial Distribution of Economic Activities**, *R package*: <https://cran.r-project.org/web/packages/EconGeo/index.html>

Petralia, S., Balland, P.A., and Rigby, D. (2016) **HistPat Dataset**, *Harvard Dataverse*, doi: 10.7910/DVN/BPC15W

ARTICLES PUBLISHED IN PEER-REVIEWED JOURNALS

36. Steijn, M. Balland, P.A., Boschma, R. & Rigby, D. (2023) **Technological diversification of U.S. cities during the great historical crises**, *Journal of Economic Geography*, forthcoming.

35. Balland, P.A. & Boschma, R. (2022) **Do scientific capabilities in specific domains matter for technological diversification in European regions?**, *Research Policy*, 51 (10):1045-1094.

34. Pinheiro, F., Balland, P.A., Boschma, R. & Hartmann, D. (2022) **The Dark Side of the Geography of Innovation. Relatedness, Complexity, and Regional Inequality in Europe**, *Regional Studies*, forthcoming.

33. Boschma, R. & Balland, P.A. (2022) **Nieuwe methode brengt kansen op regionale vernieuwing in kaart**, *ESB*, forthcoming.

32. Balland, P.A., Broekel, T., Diodato, D., Giuliani, E., Hausmann, R., O'Clery, N. & Rigby, D. (2022) **The new paradigm of economic complexity**, *Research Policy*, 51 (3): 1-11.

31. Uhlbach, W., Balland, P.A. & Scherngell, T. (2022) **Public R&D funding and new regional specialisations: The contingent role of technological relatedness**, *Industry and Innovation*, forthcoming

30. Dong, Z., Li, Y., Balland, P.A. & Zheng, S. (2022) **Industrial land policy and economic complexity of Chinese Cities**, *Industry and Innovation*, 29 (3).

29. Rigby, D., Roesler, C., Kogler, D., Boschma, R. & Balland, P.A. (2022) **Do EU regions benefit from Smart Specialization principles?**, *Regional Studies*, forthcoming.

28. Balland, P.A., and Boschma, R. (2021) **Mapping the potentials of regions in Europe to contribute to new knowledge production in Industry 4.0 technologies**, *Regional Studies*, forthcoming.

27. Balland, P.A. and Boschma, R. (2021) **Complementary Inter-Regional Linkages and Smart Specialization: an Empirical Study on European Regions**, *Regional Studies*, 55 (6): 1059-1070.

26. Maghssudipour, A., Balland, P.A., and Giuliani, E. (2021) **Cast apart by the elites: how status influences assortative matching in industrial clusters**, *Industry & Innovation*, 28 (7): 836-859.

25. Balland, P.A., Jara-Figueroa, C., Petralia, S., Steijn, M., Rigby, D., and Hidalgo, C. (2020) **Complex Economic Activities Concentrate in Large Cities**, *Nature Human Behavior*, 4: 248-254.

24. Ascani, A., Bettarelli, L., Resmini, L., and Balland, P. A. (2020) **Global networks, local specialisation and regional patterns of innovation**, *Research Policy*, 49 (8).

23. Ascani, A., Balland, P.A., and Morrison, A. (2020) **Heterogeneous foreign direct investment and local innovation in Italian Provinces**, *Structural Change and Economic Dynamics*, 53: 388-401.
22. Balland, P.A., Boschma, R., Crespo, J. and Rigby, D. (2019) **Smart Specialization policy in the EU: Relatedness, Knowledge Complexity and Regional Diversification**, *Regional Studies*, 53 (9): 1252-1268.
21. Balland, P.A., Boschma, R., and Ravet, J. (2019) **Network dynamics in collaborative research in the EU, 2003–2017**, *European Planning Studies*, 27 (9): 1811-1837.
20. Ascani, A., Balland, P.A., and Morrison, A. (2019) **Heterogeneous foreign direct investment and local innovation in Italian Provinces**, *Structural Change and Economic Dynamics*, forthcoming.
19. Fernandes, T., Balland, P.A., Morrison, A., and Boschma, R. (2019) **What drives the geography of jobs in the US? Unpacking relatedness**, *Industry and Innovation*, forthcoming.
18. Giuliani, E., Balland, P.A., and Matta, A. (2019) **Straining but not thriving: Understanding network dynamics in underperforming industrial clusters**, *Journal of Economic Geography*, 19 (1): 147–172.
17. Hidalgo, C., Balland, P.A., Boschma, R., Delgado, M., Feldman, M., Frenken, K., Glaeser, E., He, C., Kogler, D., Morrison, A., Neffke, F., Rigby, D., Stern, S., Zheng, S., and Zhu, S. (2018) **The Principle of Relatedness**, *Unifying Themes in Complex Systems (IX)*: 451-457.
16. Vicente, J., Balland, P.A., and Crespo, J. (2018) **Les fondements micro du changement structurel régional: Que nous enseignent 25 ans de proximités?**, *Revue d'Économie Régionale & Urbaine*, 5 (6): 1013-1041. [Abstract] [PDF]
15. Petralia, S., Balland, P.A., and Morrison, A. (2017) **Climbing the Ladder of Technological Development**, *Research Policy*, 46 (5): 956–969.
14. Balland, P.A., and Rigby, D. (2017) **The Geography of Complex Knowledge**, *Economic Geography*, 93 (1): 1-23.
13. Balland, P.A. (2017) **A review of Why Information Grows? The Evolution of Order, from Atoms to Economies by César Hidalgo**, *Journal of Economic and Social Geography (TESG)*, 108 (2): 258–260.
12. Heimeriks, G., and Balland, P.A. (2016) **How Smart is Specialisation? An Analysis of Specialisation Patterns in Knowledge Production**, *Science and Public Policy*, 43 (4): 562-574.
11. Balland, P.A., Belso-Martinez, J.A., and Morrison, A. (2016) **The Dynamics of Technical and Business Knowledge Networks in Industrial Clusters: Embeddedness, status or proximity?**, *Economic Geography*, 92 (1): 35-60.
10. Petralia, S., Balland, P.A., and Rigby, D. (2016) **Unveiling the geography of historical patents in the United States from 1836 to 1975**, *Scientific Data*, 3 (160074): 1-14.
9. Balland, P.A., Rigby, D., and Boschma, R. (2015) **The Technological Resilience of U.S. Cities**, *Cambridge Journal of Regions, Economy and Society*, 8 (2): 167-184.
8. Balland, P.A., Boschma, R. and Frenken, K. (2015) **Proximity and Innovation: From Statics to Dynamics**, *Regional Studies*, 49 (6): 907-920.
7. Boschma, R., Balland, P.A. and Kogler, D. (2015) **Relatedness and Technological Change in Cities: The rise and fall of technological knowledge in U.S. metropolitan areas from 1981 to 2010**, *Industrial and Corporate Change*, 24 (1): 223-250.

6. Broekel, T., Balland, P.A., Burger, M. and van Oort, F. (2014) **Modeling Knowledge Networks in Economic Geography: A Discussion of Four Empirical Strategies**, *The Annals of Regional Science*, 53 (2): 423-452.
5. Boschma, R., Heimeriks, G. and Balland, P.A. (2014) **Scientific Knowledge Dynamics and Relatedness in Bio-Tech Cities**, *Research Policy*, 43 (1): 107-114.
4. Balland, P.A., de Vaan, M. and Boschma, R. (2013) **The Dynamics of Interfirm Networks along the Industry Life Cycle: The Case of the Global Video Games Industry 1987-2007**, *Journal of Economic Geography*, 13 (5): 741-765.
3. Balland, P.A., Suire, R. and Vicente, J. (2013) **Structural and Geographical Patterns of Knowledge Networks in Emerging Technological Standards: Evidence from the European GNSS Industry**, *Economics of Innovation and New Technology*, 22 (1): 47-72.
2. Balland, P.A. (2012) **Proximity and the Evolution of Collaboration Networks: Evidence from Research and Development Projects within the Global Navigation Satellite System (GNSS) Industry**, *Regional Studies*, 46 (6): 741-756.
1. Vicente, J., Balland, P.A. and Brossard, O. (2011) **Getting into Networks and Clusters: Evidence from the Midi-Pyrenean Global Navigation Satellite Systems (GNSS) Collaboration Network**, *Regional Studies*, 45 (8): 1059-1078.

POLICY REPORTS

11. Bachtrögler-Unger, J., Balland, P.A., Boschma, R. & Schwab, T. (2023) **Technological capabilities and the twin transition in Europe: Opportunities for regional collaboration and economic cohesion**, *WIFO studies*, Vienna.
10. Aridi, A., Balland, P.A., and Boschma, R. (2023) **The Leaders of the Twin Transition in Asia: Mapping Capabilities through Digital and Green Patents**, *World Bank Group*.
9. Dixon-Declève, S., Balland, P.A. et al. (2023) **Research and Innovation to Thrive in the Poly-Crisis Age: What do we need from the next Framework Programme and the Missions?** *European Commission's Directorate-General for Research and Innovation*, Brussels.
8. Renda, A., Balland, P.A. & Bosoer, L. (2023) **The Technology/jobs Puzzle: a European Perspective**, *SSRN 4372626*.
7. Dixon-Declève, S., Balland, P.A. et al. (2023) **Industry 5.0 and the future of work: making Europe the centre of gravity for future good-quality jobs**, *European Commission's Directorate-General for Research and Innovation*, Brussels.
6. Dixon-Declève, S., Balland, P.A. et al. (2023) **Transformation in the poly-crisis age**, *European Commission's Directorate-General for Research and Innovation*, Brussels.
5. Van Haaren, J., van Oort, F., Boschma, R. & Balland, P.A. (2022) **Ruimtelijk Economische Analyse van het Groene Hart en De Peel**, *Ministerie van Binnenlandse Zaken en Koninkrijksrelaties*.
4. Dixon-Declève, S., Balland, P.A. et al. (2020) **Protect, prepare and transform Europe - Recovery and resilience post COVID-19**, *European Commission's Directorate-General for Research and Innovation*, Brussels.

3. Balland, P.A., and Ravet, J. (2018) **Dynamic Network Analysis of the EU R&I Framework Programme**, Monitoring Flash for the *European Commission's Directorate-General for Research and Innovation*, Brussels.
2. Boschma, R., Balland, P.A., Crespo, J., and Rigby, D. (2017) **Linking impacts to open innovation: increasing local impact using the related variety and knowledge complexity concepts: empirical findings of regions patent data**, *Report for the RISE group, European Commission's Directorate-General for Research and Innovation*, Brussels.
1. Levy, R., Massard, N., and Balland, P.A. (2010) **Quelles collaborations entre acteurs du processus d'innovation?**, scientific report on the French cluster policy for the French Ministry of Economy, Finance and Industry (Direction générale de la compétitivité, de l'industrie et des services).

PHD THESIS

Balland, P.A. (2010) **Proximity and the Structure of Knowledge Networks: Evidence from the GNSS industry**. Ph.D. Thesis, University of Toulouse.

SUPERVISION OF PH.D. STUDENTS

Mathieu Steijn (2015-2021): The dynamics of agglomeration economies and channels of economic change, Utrecht University Repository (Dissertation).

Alje van Dam (2016-2020): The capabilities approach to economic development: on diversity, complexity and relatedness, Utrecht University Repository (Dissertation).

Teresa Farinha Fernandes (2015-2020): The Evolving Geography of Jobs: How Relatedness Shapes Labour Dynamics, Utrecht University Repository (Dissertation).

Arnault Morisson (2016-2019): Regional Innovation Policies: The Role of the Institutional Contexts and Institutional Entrepreneurs, Utrecht University Repository (Dissertation).

Sergio Petralia (2014-2017): Technological Change and Uneven Economic Development, Utrecht University Repository (Dissertation).

Matthias Brachert (2012-2016): Related variety and regional development: Insights from Germany, Utrecht University Repository (Dissertation).

Lars Mewes (2016-2019): Quality Dimensions of Knowledge and Regional Development: Relatedness, Complexity, Novelty, and Impact of Knowledge, Utrecht University Repository (Dissertation).

Sándor Juhász (2016-2019): Geography and Network Tie Formation, Utrecht University Repository (Dissertation).

Dongmiao Zhang (since 2020): AI and the Future of Work.

Diego Osorio (since 2016): A complexity approach to Conflict and Peace Resolution.

INVITED TALKS

World Bank conference of The Promise of Digital Transformation (Vienna, 2019)

Directorate General for Regional and Urban Policy (DG REGIO) (Brussels, 2019)

Evaluation Conference of EU Cohesion Policy (Bucharest, 2019)

World Bank show and tell seminar (Washington, DC, 2019)
Chinese Academy of Science (Beijing, 2019)
Peking University (Beijing, 2019)
Directorate General for Research and Innovation Policy (DG RTD) (Brussels, 2019)
INGENIO, University of Valencia (Valencia, 2019)
Joint Research Centre (JRC) of the European Commission (Sevilla, 2019)
Ministry of Economy and Finance of Morocco (Rabat, 2019)
University Sidi Mohamed Ben Abdellah (Fès, 2019)
Stavanger Business School (Stavanger, 2018)
HEC Montréal (Montréal, 2018)
Media Lab, Massachusetts Institute of Technology (Boston, 2018)
University of Pisa (Pisa, 2018)
University of California, Los Angeles (Los Angeles, 2018)
University of Florence (Florence, 2017)
Media Lab, Massachusetts Institute of Technology (Boston, 2017)
John F. Kennedy School of Government, Harvard University (Boston, 2017)
University of Pisa (Pisa, 2017)
Organisation for Economic Co-operation and Development - OECD (Paris, 2017)
University of California, Los Angeles (Los Angeles, 2017)
Barcelona Workshop on Regional and Urban Economics (Barcelona, 2016)
University of Toulouse (Toulouse, 2016)
University of Pisa (Pisa, 2016)
Growth Lab Seminar - John F. Kennedy School of Government, Harvard University (2015)
Institutskolloquium - Karlsruhe Institute of Technology (2015)
ISEG Lecture - University of Hanover
Research Seminar - University of Pisa (2015)
Research Seminar - University of Bordeaux (2015)
Visiting Scholars Seminar - Swinburne University of Technology, Melbourne (2014)
Cluster and Networks Seminar - Universitat Jaume I de Castelló, Spain (2013)
International Workshop on Regional Development - INRA Paris (2011)
Regional Innovation and Growth - University of Pécs, Hungary (2011)

SHORT-TERM VISITS

Chinese Academy of Science (July 2019)
University of Paris (June 2019)
University of Pécs (July 2017)
Media Lab, Massachusetts Institute of Technology (April-May 2017)
University of Florence (Feb. 2017)
University of Toulouse (Nov. 2016)
University of Pisa (Feb. 2016)
John F. Kennedy School of Government, Harvard University (May 2015)
Swinburne University of Technology in Melbourne (Dec. 2014 – Jan. 2015)

MEDIA

"The EU needs to fix the east – west innovation gap", by Florin Zubaşcu in Science Business. Retrieved from <https://sciencebusiness.net/news/eu-needs-fix-east-west-innovation-gap> (Sept. 26, 2019).

"How Regions Can Re-invent Themselves", Institute for New Economic Thinking Webinar by Pierre-Alexandre Balland. [Video file]. Retrieved from <https://www.youtube.com/watch?v=BmMTvj6IWRk> (July 2, 2019).

"Knowledge complexity and spatial inequality", Institute for New Economic Thinking Webinar by Pierre-Alexandre Balland. [Video file]. Retrieved from <https://www.youtube.com/watch?v=huHYx5PD5ng> (Sept. 11, 2017).

"Technology as an urban solution to economic decline", by Rachel Gordon in the *Chicago Policy Review*. Retrieved from <http://chicagopolicyreview.org/2016/05/06/technology-as-an-urban-solution-to-economic-decline> (May 6, 2016).

"Créer un observatoire de l'innovation pour cartographier les compétences des régions", Interview of Pierre-Alexandre Balland by Paul Périé in *La Tribune*. Retrieved from <http://toulouse.latribune.fr/innovation/2016-01-27/-creer-un-observatoire-de-l-innovation-pour-cartographier-les-competences-des-regions.html> (January 27, 2016).

"Socio-economic and technological flexibility is key to the resilience of American cities in times of crisis", by Pierre-Alexandre Balland, David Rigby, and Ron Boschma in *United States American Politics and Policy*, London School of Economics United States Centre. Retrieved from <http://blogs.lse.ac.uk/usappblog/2015/09/30/socio-economic-and-technological-flexibility-is-key-to-the-resilience-of-american-cities-in-times-of-crisis/> (September 30, 2015).

"Knowledge and the city: the digital age paradox", TEDx Talk by Pierre-Alexandre Balland. [Video file]. Retrieved from <https://www.youtube.com/watch?v=bKbTq7hCMeE> (March 21, 2015).

CONTRIBUTION TO DISCIPLINE

Member of the research committee of the Regional Studies Association

Main Organizer of Academic Events

Geography of Innovation and Complexity, Utrecht, 200 participants (2019)

Geography of Networks Workshop - AAG Annual Meeting, Boston, 15 participants (2017)

Network Analysis and Innovation Studies, Lund, 30 participants (2016)

Economic Geography Research Seminars - Utrecht, 40 participants (since 2013 - *monthly seminars*)

Geography of Networks Workshop - AAG Annual Meeting, Chicago, 25 participants (2015)

Complexity Science and Economic Geography - Utrecht, 70 participants (2015)

Introduction to Network Analysis - Los Angeles, 10 participants (2015)

Second Geography of Innovation Conference - Utrecht, 400 participants (2014)

Networks and Economic Geography, Utrecht, 40 participants (2014)

Regional Resilience Workshop, Utrecht, 40 participants (2014)

Network Analysis and Innovation Studies, Lund, 30 participants (2014)

Geography of Networks Workshop - AAG Annual Meeting, Tampa, 15 participants (2014)

Networks and Economic Geography - Utrecht, 40 participants (2013)
Regional Resilience Workshop - Utrecht, 40 participants (2013)
Networks and Economic Geography - Utrecht, 30 participants (2013)
Regional Resilience Workshop - Utrecht, 25 participants (2012)
Social Network Analysis Seminar - Toulouse, 50 participants (2009)

Member of Organizing Committees of Major Academic Events

Fourth Geography of Innovation Conference, Barcelona, 350 participants (2018)
Third Geography of Innovation Conference, Toulouse, 350 participants (2016)
10th Regional Innovation Policies Conference, Karlsruhe, 100 participants (2015)
International Ph.D. School in Economic Geography, Utrecht, 45 participants (2016)
International Ph.D. School in Economic Geography, Utrecht, 40 participants (2014)
Regional resilience and Innovation Policy workshop, Toulouse, 50 participants (2014)
International Ph.D. School in Economic Geography, Utrecht, 35 participants (2012)
Economists in the City Conference, Toulouse, 50 participants (2010)
French Cluster Policy Conference, Toulouse, 100 participants (2009)

Referee Activities

Journal Referee for *African Journal of Business Management*, *Computers and Geosciences*, *Ecological Economics*, *Economic Geography*, *Economics of Innovation and New Technology*, *Environmental Innovation and Societal Transitions*, *European Planning Studies*, *Geoforum*, *Growth and Change*, *Industrial and Corporate Change*, *Journal of Economic and Social Geography*, *Journal of Economic Geography*, *Journal of Informetrics*, *Journal of Regional and Urban Economics*, *Letters in Spatial and Resource Sciences*, *Nature Climate Change Review*, *Nature Communications*, *Papers in Regional Science*, *PLoS One*, *Regional Studies*, *Industry and Innovation*, *Research Policy*, *L'Actualité Économique*, *Scientometrics*, *The Annals of Regional Science*, *Technological and Economic Development of Economy*, *Technological Forecasting and Social Change*, and *Urban Geography*.

Manuscript reviewer: *Routledge (Taylor & Francis Group)*

Conference reviewer: *DRUID Summer Conference*, *Geography of Innovation Conference*, *Regional Innovation Policies Conference*

PRESENTATIONS AT INTERNATIONAL CONFERENCES

European Policy for Intellectual Property conference – Bordeaux (2017)
Annual Meeting of the Association of American Geographers - Boston (2017)
First Regional Economic Development and Innovation Workshop - Los Angeles (2016)
Geography of Innovation conference - Toulouse (2016)
Annual Meeting of the Association of American Geographers - Chicago (2015)
Regional Innovation Policies Conference - Stavanger, Norway (2015)
Regional Studies Association European Conference - Izmir, Turkey (2015)
Annual Meeting of the Association of American Geographers - Tampa (2014)
Regional Resilience Workshop - Toulouse (2014)

Geography of Innovation Conference - Utrecht (2014)
Regional Studies Association Conference - Los Angeles (2013)
OECD conference on patents for policy makers - Rio de Janeiro (2013)
Industrial Relatedness and Economic Growth - Utrecht (2013)
Annual Meeting of the Association of American Geographers - Los Angeles (2013)
Research and Innovation workshop - Eindhoven (2012)
Regional Resilience Workshop - Utrecht (2012)
Network Dynamics and the Geography of Innovation - Utrecht (2012)
Interdisciplinary Workshop on Networks - Utrecht (2012)
Regional Studies Association European Conference - Delft (2012)
Annual Meeting of the Association of American Geographers - New-York (2012)
First Geography of Innovation conference - Saint-Etienne (2012)
Formalization and dynamics of complete networks - Toulouse (2011)
Atlanta Conference on Science, Technology, and Innovation Policy - Atlanta (2011)
Workshop on Innovation, Evolution, and Networks - Eindhoven (2011)
Dynamics and Multiplexity of Networks - Toulouse (2010)
Sunbelt Conference of the International Network for Social Network Analysis - Riva Del Garda (2010)
EUROLIO Conference on Localized Innovation Indicators - Toulouse (2010)
Social Network Conference of the French Association of Sociology - Toulouse (2010)
Workshop Proximity and Innovation: Empirical Issues - Toulouse (2010)
Workshop on Social Network Analysis - Toulouse (2010)
Sixth Proximity Congress - Poitiers (2009)
French competitiveness clusters policy - Toulouse (2009)
Regional Studies Association International Conference (2008)

TEACHING

Teaching qualifications

Teaching certificate from the French ministry of higher education (2010)
Teaching certificate from Utrecht University (Basiskwalificatie Onderwijs - 2014)

Ph.D. Level

Economic Geography in R - Utrecht University (since 2016)
Networks and Economic Geography - Utrecht University (since 2012)
Innovation Networks - Norwegian Business School (since 2014)
Network Analysis and Innovation Studies - Lund University (since 2014)

Introduction to Network Analysis - Universidad Miguel Hernández de Elche (since 2016)

Networks and Economic Geography - Utrecht University (since 2012)

M.Sc. Level

The New Science of Cities - Utrecht University (since 2016)

Urban Resilience - Utrecht University (since 2015)

Economic Geography Field Trip (1 week abroad) - Utrecht University (since 2015)

Quantitative Urban & Economic Analytics - Utrecht University (since 2014)

The Geography of Innovation, Networks, and Technological Change - University of Hannover (2015 - 2016)

B.Sc. Level

Network Science - Utrecht University (since 2010)

Economic Evolution of Cities and Regions - Utrecht University (since 2013)

Applied Economics Research Course - Utrecht University (since 2015)

Geography of Networks, University of California, Los Angeles (2015-2016)

Organizational Theory, University of Toulouse (2007-2010)