

Current position

Dec. 2022 – **Research Director**, *in data science and models*, IRD, PRODIG, Campus Condorcet, France.

Dec. 2022 – **Affiliated Researcher**, *ISI Foundation*, Italy.

Research experience

Apr. 2015 – **Senior Research Scientist**, *Institute for Scientific Interchange, Data Science for Social Impact and Sustainability*, Turin, Italy.

Nov. 2013 –2019 **Visiting Scientist**, *Institut rhône-alpin des systèmes complexes, IXXI, École Normale Supérieure*, Lyon, Collaboration with Márton Karsai, Laboratoire de l'informatique du parallélisme.

Nov. 2011 – **Junior Researcher**, *Institute for Scientific Interchange, Data Science LAB*, Turin, March 2015 Italy.

Oct. 2010 – **Post-doctoral researcher**

Aug. 2011

Institute Physics Department, *École Normale Supérieure*, Paris

Project Urban Collective Dynamics: Individual and Spatial Heterogeneities, ANR (ANR-08-SYSC-008)

Oct. 2007 – **PhD**

Oct. 2010

Laboratoire de Physique Statistique, *École Normale Supérieure*, Paris, France

Title Modeling of socio-economic systems with statistical physics tools
presented on October, 22nd 2010

Advisors J.-P. Nadal and J. Vannimenus

Fellowship from the French Ministère de l'Enseignement Supérieur et de la Recherche, allocated by the Ecole doctorale de Physique de l'UPMC ED 389

Jury Alain Barrat, CPT, Marseille

Leticia Cugliandolo, LPTHE, Paris

Silvio Franz, LPhTMS, Orsay

Alan Kirman, GREQAM, Marseille

Matteo Marsili ICTP, Trieste

Jean-Pierre Nadal, ENS - CAMS, Paris

Teaching experience

- 2014-2025 Course on Data Mining, Statistical Modeling and Machine Learning, Master 1 / Master 2, *Università degli Studi di Torino*
- January 2024 Invited lecture in the Quantitative approaches and mathematical modelling in humanities and social sciences Course as part of the PSL Digital and Computational Humanities Master, *Ecole Nationale des Chartes*
- May 2023 Invited lecture in the Economy of cities and territories course, *Ecole Nationale des Ponts*
- 2020 Lecture on Data Mining and Modelling of Social Systems, SSST, *Università degli Studi di Torino*
- 2013-2017 Teaching network science in the program Big Dive (<http://www.bigdive.eu/>), Turin, Italy
- January 2016 Teaching Data Mining : Statistical Modeling and Learning from Data in the Computer Science Department *Computer Science Department of ENS Lyon, France*
- 2008 – 2010 Teaching assistant for undergraduate students, *Université Pierre et Marie Curie, Paris.*
 - General mathematics for scientists
 - Calculus and statistics

Supervision

- 2023-2024 Supervisor of Michele Tizzani. Postdoc. Project: Social factors and epidemic prediction models
- 2023-2024 Supervisor of Salvatore Freni, Master student. Project: Mobility, accessibility and inequality in Chile
- 2022-2023 (Co-)Supervisor of Ilaria Stanzani, Junior researcher. Project: Urban election dynamics
- 2021-2022 (Co-)Supervisor of Pietro Folco, Junior researcher. Project: Soft mobility infrastructure for a sustainable city: a model for cycling paths
- 2021-2022 (Co-)Supervisor of Federico Delussu, Junior researcher. Project: Mobility during the second wave of COVID-19
- 2021-2022 (Co-)Supervisor of Daniele Sartirano, Junior researcher. Project: Digital data for humanitarian decision-making in Indonesia, collaboration with UNICEF
- 2019-2020 (Co-)Supervisor of Lorenzo Betti, Junior researcher. Project: Automatic identification of constructs related to vaccine hesitancy
- 2019-2020 (Co-)Supervisor of Marina Klanjčić, Junior researcher. Project: Identifying the determinants of road safety in European cities
- 2019-2020 (Co-)Supervisor of Emanuele Pepe, Junior researcher. Project: Measuring changes in human mobility with anonymized location data
- 2021 Supervisor of Giorgio Mazzanti, Master student, *Università degli Studi di Torino*, research training on COVID-19 pandemic containment policies: an evaluation of changes of the public transportation networks of 5 medium size European cities
- 2020 Supervisor of Konstantina Dakou, Master student, *Università degli Studi di Torino*, research training on the COVID-19 lockdown effects on public transportation systems in European cities

- 2019 Supervisor of Lorenzo Betti, Master student, Università degli Studi di Torino, research training on spread of misinformation through embedding
- 2017 - 2021 Supervisor of Maddalena Torricelli, PhD student, Università di Bologna, Data Science and Computation. (Co-supervisors : Ciro Cattuto, Laura Sartori).
- 2015 -2019 Supervisor of Denise Maffione, PhD student, Università degli Studi di Torino, Advanced analytical methodologies for high-dimensional, low-cardinality data in System Vaccinology. (Co-supervisor : Emilio Siena).
- 2018 Supervisor of Martino Olivieri, Master student, Università degli Studi di Torino, 6-months research training on wearable sensors in a hospital. (Co-supervisor : Laura Ozella).
- 2018 Supervisor of Emma Krebs, Master student, ENS Lyon, 2-months research training on temporal networks.
- 2018 Supervisor of Carlo Fisicaro, Master student, Università degli Studi di Torino, 6-months research training on Part of Speech tagging Hidden Markov Models vs Recurrent Neural Networks. (Co-supervisor : CELI (tech company)).
- 2016-2017 Supervisor of Francesco Parino, Master student, Università degli Studi di Torino, 6-months research training on the analysis of the Bitcoin blockchain.
- 2014-2017 Supervisor of Anna Sapienza, PhD student, Politecnico di Torino, Tensor Decomposition Techniques for analysing Time-varying Networks. (Co-supervisors : Ciro Cattuto, Lamberto Rondoni).
- 2015 Supervisor of Iacopo Iacopini, Master student, Università degli Studi di Torino, 6-months research training on traffic data. (Co-supervisor : Giovanni Petri).
- 2014 Supervisor of Laura Alessandretti, Master student, École Normale Supérieure de Lyon, one year research training on transportation networks. (Co-supervisor : Márton Karsai).
- 2013 Supervisor of Andrea Martini, Master student, Università degli Studi di Torino, 6-months research training on community detection on temporal networks. (Co-supervisor : Ciro Cattuto).

Education

- 2006 – 2007 Preparation to physics agregation University of Provence, Marseille, France.
- 2005 – 2006 Master’s degree in physics , speciality : theoretical, mathematical and particle physics, with honors. **Centre de Physique Théorique, Marseille**, France.
- 2004 – 2005 Master 1 in fundamental physics with ERASMUS program, with high honors, **Imperial College**, London, United Kingdom.
Imperial College International Diploma
- 2003 – 2004 Licence-Magistère in fundamental physics with honors; **Université Paris XI**, Orsay, France.
- 2000 – 2003 Preparatory classes (MPSI, MP), Lycée Jacques Amyot, Melun, France.

Responsibilities

- Member of the scientific committee of Data IA SHS Université Paris 1 Pantheon-Sorbonne
- Member of working group on AI at IRD
- Elected member of the executive committee of the French local chapter of the complex system science society since 2023

Organizer

- French Conference on Complex Systems, June 2025, Paris
- Workshop on Economic and Social Factors in Epidemic Modeling, November 2024, Turin
- Conference in the honor of Jean-Pierre Nadal: From physics to neuroscience and social sciences, March 2024, Paris
- Track on AI and behavioral data in response to the COVID-19 pandemic at Applied Machine Learning Days 2021, EPFL, Lausanne

Selection and evaluation committee

- Committee member for the Habilitation of Maxime Lenormand, Contributions to spatial interaction analysis and modeling, Université de Montpellier, 2025.
- Committee member for the Habilitation of Hadrien Commenges, The use of models for spatial planning, École Doctorale de Géographie, Paris, 2024.
- Referee for the PhD of Arthur Vandervoort, A kilometre of power: Gender, mobility and datafication in São Paulo, Doctoral programme “Environmental Intelligence”, University of Exeter, 2024.
- Referee for the PhD of Thomas Bassanetti, Impact of different competition schemes on stigmergic cooperation processes in human groups, École doctorale SDM – Sciences de la Matière, Université Toulouse Paul Sabatier, 2024.
- President of the PhD jury for Didier Le Bail, Temporal face-to-face social networks: development of formal and numerical tools to support the search for a suitable theoretical framework, Aix-Marseille Université, 2024.
- Committee member for the PhD of Alexis Benichou on Redemption of network motifs or the safe inference of microcircuits in structural connectomes, École doctorale n°564, Physique en Île-de-France, Institut Pasteur, 2024.
- Referee for the PhD of Florian Cafiero on Analysing the information ecosystem: the example of vaccine controversies, SciencesPo, 2023
- Referee for the PhD of Antoine Lucquiaud on Modelling the emergence of sociospatial segregation and detecting its structures, Université Paris 1 - Panthéon Sorbonne, 2022, ED 386 Sciences Mathématiques de Paris Centre
- Referee for the PhD of Guillaume St-Onge on Contagion processes in complex networks beyond dyadic interactions, Centre interdisciplinaire de modélisation mathématique de l'Université Laval, Québec, 2022
- Member in the selection committee for Assistant professor in Computational Social Science, SciencesPo 2020

–Member in the selection committee for Assistant Professor in Statistical Physics of Complex Systems and Complex Networks, Université Aix-Marseille 2018

–Member in the PhD Jury of, Antoine Moinet Dynamical processes on non-Markovian temporal networks Ecole Doctorale Physique et Sciences de la Matière (Marseille) 2018

Program Comittee Member

ACM Web Science Conference 2014

Computational Social Science, LC2S2 2015

Complex Networks: from theory to interdisciplinary applications, 2016

DELVE: Digital epidemiology and surveillance, 2016

Data Science for Human Performance in Social Networks (ACUMEN) at ICDM 2017

1st Workshop on Trusted Smart Contracts again associated to Financial Cryptography 2017

2nd Workshop on Trusted Smart Contracts again associated to Financial Cryptography 2018

International Conference on Computational Social Science 2023

Reviewer for the following journals (selection): Nature Communications, Physica A, Advances in Complex Systems, EPJ Data Science, Journal of Statistical Mechanics (JSTAT), Nature Scientific Reports, PLOS ONE, Physical Review E, Interface, Scientific Reports, Science Advances, ICWSM, npj Urban Sustainability, and Transport Policies...

Editor

– Advances in Complex Systems

– Humanities and Social Sciences Communications

Skills

Computer skills

Programming languages C/C++, Matlab, PYTHON

Languages

French **native language**

English **understood, spoken and written**

German **basic knowledge**

Italian **understood, spoken and written**

Publications

Journal Articles

- [1] Tizzani, M., Gauvin, L. *Socioeconomic determinants of protective behaviors and contact patterns in the post-COVID-19 pandemic era: A cross-sectional study in Italy.* 2025. PLOS Computational Biology, 21(8): e1013262. <https://doi.org/10.1371/journal.pcbi.1013262>

- [2] Fielding, H. R., Silk, M. J., McKinley, T. J., Delahay, R. J., Wilson-Aggarwal, J. K., Gauvin, L., Ozella, L., Cattuto, C., McDonald, R. A., *Social interactions of dairy cows and their association with production and somatic cell count*. 2024. Applied Animal Behaviour Science, Elsevier, Article 106385.
- [3] Gauvin, L., *Gaps in gender and socioeconomic mobility disparity studies*. 2024. Nature Computational Science, 4(9), pp. 633–635.
- [4] Dall’Amico, L., Kleynhans, J., Gauvin, L., Tizzoni, M., Ozella, L., Makhasi, M., Wolter, N., Language, B., Wagner, R.G., Cohen, C. and Tempia, S., *Estimating household contact matrices structure from easily collectable metadata*. 2024. Plos one, 19(3), p.e0296810.
- [5] F. Delussu, M. Tizzoni, L. Gauvin. *The limits of human mobility traces to predict the spread of COVID-19: A transfer entropy approach*. PNAS nexus. 2023 Oct;2(10):pgad302.
- [6] Kleynhans J, Dall’Amico L, Gauvin L, Tizzoni M, Maloma L, Walaza S, Martinson NA, von Gottberg A, Wolter N, Makhasi M, Cohen C. *Association of close-range contact patterns with SARS-CoV-2: a household transmission study*. Elife. 2023 Jul 18;12:e84753.
- [7] M. Klanjčić, L. Gauvin, M. Tizzoni, M. Szell, *Identifying urban features for vulnerable road user safety in Europe*, EPJ Data Science 11 (1), 27 6 2022
- [8] F. Delussu, M. Tizzoni, L. Gauvin, *Evidence of pandemic fatigue associated with stricter tiered COVID-19 restrictions*, PLOS Digital Health 1 (5), e0000035 2 2022
- [9] M. Tizzoni, E.O. Nsoesie, L. Gauvin, M. Karsai, N. Perra, S. Bansal, *Addressing the socioeconomic divide in computational modeling for infectious diseases* Nature Communications 13 (1), 1-7 1 2022
- [10] Gauvin L, Génois M, Karsai M, Kivela M, Takaguchi T, Valdano E, Vestergaard CL. *Randomized reference models for temporal networks*. SIAM Review. 2022;64(4):763-830.
- [11] L. Gauvin, P. Bajardi, E. Pepe, B. Lake, F. Privitera, M. Tizzoni, *Socio-Economic Determinants of Mobility Responses during the First Wave of COVID-19 in Italy: From Provinces to Neighbourhoods*. Journal of The Royal Society Interface 2021, 18 (181), 20210092.
- [12] . R. Woskie, J. Hennessy, V. Espinosa, T. C. Tsai, S. Vispute, B.H. Jacobson, C. Cattuto, L. Gauvin, M. Tizzoni, A. Fabrikant, et al.. *Early Social Distancing Policies in Europe, Changes in Mobility and COVID-19 Case Trajectories: Insights from Spring 2020*. Plos one 2021, 16 (6), e0253071. <https://doi.org/10.1371/journal.pone.0253071>.
- [13] M. Mazzoli, E. Pepe, et al. "Interplay between mobility, multi-seeding and lockdowns shapes COVID-19 local impact." PLoS computational biology 17.10 (2021): e1009326.
- [14] H. R. Fielding, M. J. Silk, et al. "Spatial and temporal variation in proximity networks of commercial dairy cattle in Great Britain." Preventive veterinary medicine 194 (2021): 105443.
- [15] L. Gauvin, P. Bajardi, et al. "Socio-economic determinants of mobility responses during the first wave of COVID-19 in Italy: from provinces to neighbourhoods." Journal of The Royal Society Interface 18.181 (2021): 20210092.

- [16] L. R. Woskie, J. Hennessy, et al. "Early social distancing policies in Europe, changes in mobility & COVID-19 case trajectories: Insights from Spring 2020." *PLoS One* 16.6 (2021): e0253071.
- [17] L. Betti, G. De Francisci Morales, et al. Detecting adherence to the recommended childhood vaccination schedule from user-generated content in a US parenting forum. *PLoS computational biology*, 17(4), e1008919 (2021).
- [18] E. Pepe, P. Bajardi, L. Gauvin, F. Privitera, B. Lake, C. Cattuto, and M. Tizzoni. COVID-19 outbreak response, a dataset to assess mobility changes in Italy following national lockdown. *Scientific data*, 7(1), 1-7 (2020).
- [19] L. Gauvin, M. Tizzoni, S. Piaggese, A. Young, N. Adler, S. Verhulst, L. Ferres, C. Cattuto. Gender gaps in urban mobility. *Humanit Soc Sci Commun* 7, 11 (2020).
- [20] M. Torricelli, M. Karsai, L. Gauvin, *weg2vec: Event embedding for temporal networks*. *Scientific Reports*, 10(1), 1-11,(2020).
- [21] L. Ozella, J. Langford, L. Gauvin, E. Price, C. Cattuto, D. P. Croft, *The effect of age, environment and management on social contact patterns in sheep*, *Applied Animal Behaviour Science*, 104964, (2020)
- [22] L. Ozella, L. Gauvin, L. Carenzo, M. Quaggiotto, et al., *Wearable proximity sensors for monitoring a mass casualty incident exercise: a feasibility study*, *JMIR*, (2019).
- [23] T. P., Peixoto, and Laetitia Gauvin *Change points, memory and epidemic spreading in temporal networks*, *Scientific reports* 8.1 (2018)
- [24] F. Parino, M. G. Beiró, L. Gauvin, *Analysis of the Bitcoin blockchain: socio-economic factors behind the adoption*, *EPJ Data Science*, 7(1), 38 (2018).
- [25] A. Sapienza, A. Barrat, C. Cattuto, L. Gauvin, *Estimating the outcome of spreading processes on networks with incomplete information: A dimensionality reduction approach*, *Physical Review E*, 98(1), 012317 (2018).
- [26] L.M. Alessandretti, M. Karsai, L. Gauvin, *User-based representation of time-resolved multimodal public transportation networks*, *R. Soc. open sci.* 3 160156 (2016)
- [27] L. Gauvin, A. Panisson, C. Cattuto, *Detecting the community structure and activity patterns of temporal networks: a non-negative tensor factorization approach*, *PLoS ONE* 9(1): e86028 (2014)
- [28] L. Gauvin, A. Panisson, A. Barrat, C. Cattuto, *Activity clocks: spreading dynamics in empirical temporal networks of human contacts*, *Scientific Reports* 3, (2013)
- [29] L. Gauvin, A. Vignes and J.-P. Nadal, *Modeling urban housing market dynamics: can the socio-spatial segregation preserve some social diversity?*, *Journal of Economic Dynamics and Control* 37, 1300–1321, (2013)
- [30] L. Gauvin, J.-P. Nadal, J. Vannimenus, *Schelling segregation in an open city: a kinetically constrained Blume-Emery-Griffiths spin-1 system*, *Phys. Rev. E* 81, 066120 (2010)
- [31] L. Gauvin, J. Vannimenus, J.-P. Nadal, *Phase diagram of a Schelling segregation model*, *Eur. Phys. J. B - Condensed Matter and Complex Systems* 70, 293- -304 (2009)

Conference Proceedings

- [32] Safar, P. G., Gauvin, L., Louail, T., *Disruptions in Music Listening Behaviors During Lockdowns*. 2025. Proceedings of the International AAAI Conference on Web and Social Media, 19, pp. 555–567.
- [33] S. Piaggese, L. Gauvin, M. Tizzoni, C. Cattuto, N. Adler, S. Verhulst, A. Young, and R. Price, L. Ferres, A. Panisson, *Predicting City Poverty Using Satellite Imagery*. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition Workshops (pp. 90-96) (2019)
- [34] A. Sapienza, A. Panisson, J. Wu, L. Gauvin, C. Cattuto *Anomaly Detection in Temporal Graph Data: An Iterative Tensor Decomposition and Masking Approach*, Proceedings of AALTD. Portugal (2015): 117
- [35] A. Sapienza, A. Panisson, J. Wu, L. Gauvin, C. Cattuto *Detecting anomalies in time-varying networks using tensor decomposition*, Proc. 5th IEEE ICDM Workshop on Data Mining in Networks 2015
- [36] A. Panisson, L. Gauvin, M. Quaggiotto, C. Cattuto, *Mining Time-resolved Topical Activity in Microblog Streams*, Making Sense of Microposts (Best paper award), World Wide Web Conference 2014
- [37] A. Panisson, L. Gauvin, A. Barrat, C. Cattuto, *Fingerprinting temporal networks of close-range human proximity*, Workshop Permoby in international conference on Pervasive Computing and Communications 2013
- [38] L. Gauvin, A. Vignes and J. -P. Nadal, *Modeling urban housing market dynamics: can the socio-spatial segregation preserve some social diversity?*, (version courte du papier JEDC) in International Conference on Complex Systems 2011
- [39] L. Gauvin, J.-P. Nadal, J. Vannimenus, *Schelling's segregation model for an open city : emergence of physical frontiers from a socio-spatial dynamics*, in European Conference on Complex Systems 2010
- [40] L. Gauvin, J. Vannimenus, J.-P. Nadal, *Phase diagram of a Schelling segregation model*, in European Conference on Complex Systems 2009

Chapter in a book

- [41] Gauvin, L., Randon-Furling, J., *Segregation in cities*. 2025. Compendium of Urban Complexity, Springer Nature, p. 137.

Thesis

L. Gauvin, *Modélisation de systèmes socio-économiques à l'aide des outils de physique statistique*, PhD Thesis, Université Pierre et Marie Curie, Paris

Science popularization

L. Gauvin, J-P. Nadal *Modéliser, comprendre et combattre la ségrégation sociale*, blog Mathématiques de la planète Terre, <http://mpt2013.fr/modeliser-comprendre-et-combattre-la-segregation-sociale/>

Invited Talks

In conferences and workshops

March 2025 *Colloquium, ENS, Physics, Lyon*

- November 2024 *Colloquium, « Du Monde d'Avant au Monde d'Après » (MAMA), Paris*
- December 2023 *International workshop Preventing and controlling diseases in the built environment of city regions, France-Singapore cross-views, Center Panthéon, Université Paris 1 Panthéon Sorbonne*
- June 2023 *STIC-AmSud workshop on Leveraging federated mobility learning for tactile Internet services. (with researchers from Chile, France, Brazil and Argentina), INRIA, Saclay*
- January 2023 *Complex Systems in Social Science Seminar, EHESS, CAMS, Paris*
- January 2023 *Seminar series in Computational Social Science (CSS) – at Centre Marc Bloch Berlin*
- June 2022 *French Conference on Complex Systems, Paris*
- June 2022 *Towards greener and sustainable cities The Alan Turing Institute - Exeter*
- December 2021 *Expert panel: Spatial analytics + Data panel, December 2021*
- October 2021 *ATI/UAP-ITINERANT workshop on Mobility Data in Urban Science, Alan Turing Institute, London about Inequalities in human mobility*
- May 2021 *Scuola di Politiche, Corso Impact*
- May 2021 *Data Science Institute, Facultad de Ingeniería, Universidad del Desarrollo*
- September 2020 *Higher-Order models in Network Science satellite at CCS 2020*
- December 2019 *Workshop on Using Mobile Telephony Data for Societal Insight, Complex Systems Hub, Vienna.*
- September 2019 *Workshop on Higher-Order Interactions, University of Oxford.*
- June 2019 *Engineering Workshop in Network Science, EPFL, Lausanne.*
- May 2019 *Critical and Collective Effects in Graphs and Networks, Les Houches school of Physics, France.*
- September 2018 *Extracting and analysing networks from spatio-temporal data satellite at CCS'18 , Urban Mobility from a Gendered Perspective through Mobile Phone Data, Thessaloniki.*
- September 2018 *Tensors workshop, Tensor-based method for temporal networks. Turin*
- June 2018 *BlockNet 2018, NetSci satellite, , Analysis of the Bitcoin blockchain: Socio-economic factors behind the adoption, Paris.*
- June 2018 *RESCOM summer school on Data science, Network Science and Machine Learning , Network Science introduction, Porquerolles.*
- November 2017 *IMERA lecture , data science for network analysis, Marseille.*
- June 2017 *Machine learning in network science, Indianapolis.*
- July 2016 *Symposium Cities as complex systems, Hanover*
- June 2015 *"Analysis of networks for social sciences day" in the context of the EHESS 40th anniversary*

- May 2015 Colloquium *Mathematical Sciences to the proof of Human & Social Sciences* - Université Paris Panthéon-Sorbonne
- May 2015 Urban economics *LIEPP Sciences Po*, Paris, France
- 6 July 2013 Colloquium *Understanding Urban Conflicts*, Université de Paris Panthéon-Sorbonne, France
- 30 – 31 May 2011 Colloquium *Mathematical Sciences to the proof of Human & Social Sciences* - Université Paris Panthéon-Sorbonne
- 1 - 3 Sep. 2010 *Optimal transport and Kinetics Applied to Socio-Economics conference*- Université Toulouse 1, Toulouse
- [Invited talks at working groups](#)
- Feb. 2015 Seminar at *University of Tokyo*, Japan
- Jan. 2015 Seminar at *IMERA*, Marseille, France
- May 2014 Seminar at *IXXI* (Institut des Systèmes Complexes de la région Rhône-Alpes)
- Déc. 2013 Seminar in the team *Statistique, Analyse, Modélisation Multidisciplinaire* - Université Paris 1 Panthéon-Sorbonne, Paris
- May 2013 Seminar at *IXXI* (Institut des Systèmes Complexes de la région Rhône-Alpes)
- March 2013 Seminar in the team *Statistique, Analyse, Modélisation Multidisciplinaire* - Université Paris 1 Panthéon-Sorbonne, Paris
- Sep. 2011 Seminar at the *Centre de Physique Théorique* - Université Aix-Marseille II, Marseille
- May 2011 Seminar at *Institute for Scientific Interchange* - Turin, Italie
- Feb. 2011 Seminar at *ERMES, Equipe de Recherche sur les Marchés, l'Emploi et la Simulation* - Université Panthéon-Assas, Paris
- Apr. 2010 Seminar at the *Laboratoire Mathématiques et Applications, Physique Mathématique* - Université d'Orléans
- Jan. 2010 Seminar at the *Journées de Physique Statistique* - ESPCI, Paris
- Jan. 2010 Seminar at the *Laboratoire de Physique Théorique* - University Paris XI, Orsay