

## Eric Gautier

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Research team : Toulouse School of Economics, University of Toulouse Capitole,  
1 Esplanade de l'université, 31000 Toulouse  
TSE thematic groups membership : (1) Mathematics of Decision Making and Statistics  
(2) Econometrics and Empirical Economics

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## Curriculum Vitae

### Career

École d'économie et de sciences sociales quantitatives de Toulouse Professor of Mathematics Affiliation : TSE-R	Toulouse, France  2014-
ENSAE ParisTech Professor of Statistics Affiliation : CREST	Malakoff, France 2007-2014
Yale Postdoctoral associate Affiliation : Cowles Foundation for research in Economics	New Haven, USA 2006-2007
INSEE Statistician methodologist Expertise : inference with missing data in surveys, Econometrics, wealth inequalities	Paris, France 2003-2006
University of Paris-Sud 11 Teaching Assistant in Mathematics Tutorials in undergraduate Mathematics (Monitorat)	Orsay, France 2001-2003

### Education

Ph.D. in Economics (2012), University of Paris 1, supervisor : J.-M. Robin  
Habilitation à Diriger des Recherches (2011), Ecole Normale Supérieure de Cachan  
Ph.D. in Mathematics (2005), University of Rennes 1, supervisor : A. Debussche  
ENSAE (2003), full fellowship as Administrateur de l'INSEE  
Ecole Normale Supérieure de Cachan (2001), full fellowship  
Magistère in Mathematics, University of Paris-Sud 11 (2001)  
DEA Stochastic and Statistic Modeling, University of Paris-Sud 11 (2001)  
Agrégation in Mathematics (2000)

## I - Publications and scientific production

### Publications

- J. Beyhum and E. Gautier, Factor and factor loading augmented estimators for panel regression, [arXiv:2010.01837](#) **Journal of Business and Economic Statistics** 41, 270-281 (2023).
- C. Gaillac and E. Gautier, Adaptive estimation in the linear random coefficients model when regressors have limited variation, [arXiv:1905.06584](#) **Bernoulli** 28 (2022). 504-524.
- C. Gaillac and E. Gautier, Estimates for the SVD of the truncated Fourier transform on  $L^2(\cosh(bx))$  and stable analytic continuation, [arXiv:1905.11338](#), **Journal of Fourier Analysis and Applications** 27, 72 (2021).
- E. Gautier, Relaxing monotonicity in endogenous selection models and application to surveys, [arXiv:2006.10997](#) in **Advances in Contemporary Statistics and Econometrics** (2021) 59-78, Springer.
- E. Gautier and E. Le Pennec, Adaptive estimation in the nonparametric random coefficients binary choice model by needlet thresholding, <https://doi.org/10.1214/17-EJS1383> (2018), **Electronic Journal of Statistics** 12 (2018) 277-320
- C. De Mol, E. Gautier, D. Giannone, S. Mullainathan, L. Reichline, H. van Dijk, and J. Wooldridge **Big Data in Economics : Evolution or Revolution**. *Economics Without Borders - Economic Research for European Policy Challenges*, ed. R. Blundell, E. Cantillon, B. Chizzolini, M. Ivaldi, W. Leininger, R. Marimon, L. Matyas, T. Ogden, and F. Steen, Cambridge University Press (2016)
- E. Gautier and A. Tsybakov, Pivotal estimation in high-dimensional regression via linear programming, **Empirical Inference, Festschrift in Honor of Vladimir N. Vapnik**, [arXiv:1303.7092](#), Springer (2014)
- E. Gautier and Y. Kitamura, Nonparametric estimation in random coefficients binary choice models, [arXiv:0907.2451v2](#), **Econometrica** 81 (2013) 581-607
- E. Gautier, Hierarchical Bayesian estimation of inequalities with non-rectangular censored survey data, [arXiv:1107.5899](#), **Annals of Applied Statistics** 5, 2B (2011) 1632-1656
- E. Gautier, Exit times and persistence of solitons for a stochastic Korteweg-de-Vries equation. *Dynamics, Games and Science II*, ed. M. Peixoto, A. Pinto and D. Rand, **Springer Proceedings in Mathematics** (2011)
- A. de Bouard and E. Gautier, Exit problems related to the persistence of solitons for the Korteweg-de Vries equation with small noise, [arXiv:0801.3894](#), **Discrete and Continuous Dynamical Systems A** 26 n3 (2010) 857-871
- E. Gautier and C. Houdré, Estimation des inégalités dans l'enquête Patrimoine 2004, **Economie et Statistique** 417-418 (2009) 135-152
- E. Gautier, Exit from a basin of attraction for stochastic weakly damped nonlinear Schrödinger equations, [arXiv:0602350](#), **Annals of Probability** 36 (2008) 896-930
- A. Debussche and E. Gautier, Small noise asymptotic of the timing jitter in soliton transmission,

[arXiv:0609434v2](#), **Annals of Applied Probability** 18 (2008) 178-208

E. Gautier, Stochastic nonlinear Schrödinger equations driven by a fractional noise - Well posedness, large deviations and support, [arXiv:0609423v1](#), **Electronic Journal of Probability** 12 (2007) 848-861

E. Gautier, Uniform large deviations for the nonlinear Schrödinger equation with multiplicative noise, [arXiv:0412319](#), **Stochastic Processes and their Applications** 115 (2005) 1904-1927

E. Gautier, Large deviations and support results for nonlinear Schrödinger equations with additive noise and applications, [arXiv:0406362](#), **ESAIM : Probability and Statistics** 9 (2005) 74-97

## Proceedings

A. Arlandis, C. Cazals, E. Gautier, and N. Meddahi, How the Covid-19 crisis is impacting postal markets? - A new assessment one year later, in **Postal Strategies**, Springer (2023) 301-311

A. Arlandis, M. Lefort, C. Cazals, E. Gautier, and N. Meddahi, The effects of the Covid-19 crisis on postal markets, in **The Economics of the Postal and Delivery Sector**, Springer (2023) 177-190

E. Gautier, Exit times and persistence of solitons for a Stochastic Korteweg - de Vries equation in **Dynamics, Games and Science II**, Springer Proceedings in Mathematics (2011) 343-347

E. Gautier and C. Houdré, Approche multivariée de l'estimation des inégalités dans l'enquête Patrimoine 2004, with C. Houdré, **Document de travail INSEE F801** (2008)

E. Gautier, A large deviations approach to the evaluation of the error in optical soliton transmission. **Proceedings of the Nonlinearity Meetings, Institut Henri Poincaré** (2006)

E. Gautier, Detection of inconsistencies and outliers and multivariate imputation in the French 2004 Wealth Survey, **article for the Q2006 conference** (2006)

E. Gautier, Selection and nonignorable selection in sample surveys, **Proceedings from the Journées de Méthodologie Statistique** (2005)

E. Gautier, Large deviations for stochastic nonlinear Schrödinger equations and applications, **Proceedings from the SMAI conference at Evian** (2005)

## Book

Co-editor with P. Alquier and G. Stoltz of "Inverse problems and high dimensional estimation - Stats in the Château summer school in Econometrics and Statistics, 2009", **Springer Lecture Notes in Statistics**, 203 (2011)

## Articles under revision or submitted

E. Gautier and C. Rose, Fast, Robust Inference for Linear Instrumental Variables Models using Self-Normalized Moments, [arXiv:2211.02249 \(v3\)](#)

C. Gaillac and E. Gautier, Nonparametric classes for identification in random coefficients models when regressors have limited variation, [arXiv:2105.11720](#) (2021).

E. Gautier and C. Rose, High-dimensional instrumental variables regression and confidence sets, [arXiv:1105.2454 \(v7\)](#) (2021) Revised 6 times for **Econometrica** (see also [arXiv:1812.11330](#))

E. Barrenho, E. Gautier, M. Miraldo, C. Propper, C. Rose, Innovation Diffusion Innovation Diffusion among Coworkers : Evidence from Senior Doctors, [CEPR DP15515](#) (2020), revised for **Management Science**

J. Beyhum and E. Gautier, Square-root nuclear norm penalized estimator for panel data models with approximately low-rank unobserved heterogeneity, [arXiv:1904.09192](#) (2019)

E. Gautier and S. Hoderlein, A triangular treatment effect model with random coefficients in the selection equation, [arXiv:1109.0362 \(v4\)](#) (2015), was revised for **Econometrica** and rejected

### Work in progress presented at seminars and conferences

E. Gautier, V. Kamat, and L. Laage, Estimation of partially identified functionals in nonparametric random coefficients models.

E. Gautier and C. Rose, Inference on social effects when the network is sparse and unknown (presented at : NYU, CORE, TSE, LSE, CREST, at the 2015 Frontiers of Theoretical Econometrics in the Honor of Don Andrews in Konstanz and COEURE workshop on data and methods, and 2016 RES, SFDS, ISNPS, Recent advances in Econometrics in Toulouse, IAAE, Berkeley/Cemmap, LACEA/LAMES, EC2, 2017 French Econometrics, CIREQ Montreal, Cemmap Vanderbilt, Meeting in Econometrics at TSE, Asian Meeting of the Econometric Society and EcoSta conferences, 2018 Australia New Zealand Econometric Study Group Meeting)

### Presentations at conferences

**2022** : Conference of the International Society of Nonparametric Statistics (Cyprus), Recent advances in Econometrics (TSE) ;

**2020** : Econometric Society World Congress (Milan) ;

**2019** : TSE-Bristol conference ;

**2018** : Barcelona GSE Summer Forum High-dimensional Statistics and Random Structures ;

**2017** : CEMMAP/Vanderbilt conference on Econometrics and Models of Strategic Interactions (Vanderbilt University in Nashville) ; CIREQ conference on Inference in Large Econometric Models (invited speaker, Montreal) ; Meeting in Econometrics (Toulouse) ; Asian Meeting of the Econometric Society (invited speaker, Hong-Kong) ; EcoSta conference (invited speaker, Hong-Kong) ; IAAE conference (Sapporo) ; CMStatistics (invited speaker, London) ;

**2016** : EC2 conference on Big Data (Toulouse) ; LACEA/LAMES (invited speaker, Medellin) ; SFDS congress (Montpellier), 3rd Conference of the International Society of Nonparametric Statistics (Avignon) ; Recent Advances in Econometrics (TSE) ; IAAE conference (Milan)

**2015** : COEURE workshop on data and methods (Université Libre de Bruxelles), Frontiers of Theoretical Econometrics in the Honor of D. Andrews, (University of Konstanz) ; Conference on Inverse Problems in Econometrics (invited speaker, Northwestern) ;

**2014** : Modern econometric tools and applications (keynote speaker, Nizhny Novgorod) ;

**2013** : 14th International Symposium of Econometrics, Operational Research and Statistics (keynote speaker, Sarajevo), EEA/ESEM 2013 (Gothenburg) ;

**2012** : New Trends in Mathematical Statistics (CIRM) ; 4th French Econometrics Conference (invi-

ted speaker, ENSAI); 7th French Colloquium in Survey Sampling (ENSAI); Conference on Statistics and Stochastic Differential Equations (invited speaker, University of Kyoto); 8th World Congress in Probability and Statistics (chair, Istanbul); Conference of the Canadian Economics Society (invited speaker, Mont-Tremblant); CIREQ conference on High Dimensional Problems in Econometrics (invited speaker, Montreal); XII Latin American Congress of Probability and Mathematical Statistics (chair, Viña del Mar);

**2011** : ERCIM'11 Conference on Computing and Statistics (London); New Trends in Mathematical Statistics (CIRM); 41th Probability Summer School (Saint-Flour); 35th Conference on Stochastic Processes and their Applications (Oaxaca);

**2010** : Stochastic Partial Differential Equations and Stochastic Partial Differential Equations and Applications workshops (invited speaker, Isaac Newton Institute for Mathematical Sciences, Cambridge).

**2009** : Mathematical Statistics meetings (CIRM); Stochastic Problems and Nonlinear PDEs (invited speaker, Kyoto); 33rd Conference on Stochastic Processes and their Applications, session on nonparametric Statistics (Berlin).

**2008** : Journées STAR (invited speaker, ENSAI, France); Dynamics & Applications, (invited speaker, Universidade do Minho, Braga, Portugal); EEA-ESEM Congress, session on ill-posed inverse problems (Milan, Italy); Journées du groupe MAS de la SMAI (invited speaker, Rennes); Cowles Conference on Operator Methods and Inverse Problems in Econometrics (invited speaker, Yale);

**2007** : Applications of Stochastic Partial Differential Equations (invited speaker, Mittag-Leffler Institute); 32nd Conference on Stochastic Processes and their Applications, session on Stochastic Partial Differential Equations (invited speaker, UIUC); Large Deviations Conference, (invited speaker, University of Michigan);

**2006** : 31st Conference on Stochastic Processes and their Applications (invited speaker, Paris); "Young Probabilists and Statisticians" Conference, (invited speaker, Aussois); European Conference on Quality in Survey Statistics (Cardiff); Workshop on Stochastic Partial Differential Equations (invited speaker, De Giorgi Research Center, Pisa); Nonlinearity Meetings (invited speaker, Institut Henri Poincaré);

**2005** : SPDE in hydrodynamics : recent progress and prospects, CIME summer courses (invited speaker, Cetraro); National SMAI conference, (invited speaker, Evian); INSEE Statistical Methodology Conference (Paris);

**2004** : 34th Probability Summer School (Saint-Flour)

### Seminar presentations

**2023** : Aarhus (Econometrics);

**2022** : UCLA (Econometrics);

**2021** : Boston University (Econometrics);

**2020** : Université de Montreal (Econometrics);

**2019** : Duke  $\times$  2 (Econometrics), NC State (Econometrics), Berkeley (Econometrics), Rice (Econometrics), Northwestern (Econometrics), University of Chicago (Econometrics), Vienna (Statistics);

**2018** : Brown (Econometrics); Harvard-MIT (Econometrics); University of Lyon 1 (Mathematics); University of Nice (Mathematics);

**2017** : Verona (Statistics);

**2016** : Aix-Marseille (Econometrics); Université Catholique de Louvain (Econometrics); LSE (Econometrics); CREST (Statistics); TSE (Statistics);

**2015** : NYU (Economics); Université Libre de Bruxelles (Statistics and Econometrics); TSE (Econometrics Workshop);

**2014** : University of Zürich and ETH Zürich (Statistics and Econometrics); TSE (Statistics); University of Toulouse Paul Sabatier (Statistics); UC San Diego (Econometrics); UC San Diego (Econometrics Workshop); University of Wisconsin Madison (Econometrics); University of Lausanne (Econometrics); Cambridge (Econometrics);

**2013** : ENSTA ParisTech (Probability, Statistics and Control); TSE (Mathematics); Université Catholique de Louvain (Econometrics); HEC Paris (Economics and Decision Making); University of Mannheim (Econometrics); University of Pisa (Probability, Stochastic Analysis and Statistics); University of Bristol (Economics);  
**2012** : CEMFI (Econometrics); TSE (Applied Mathematics); University of Chicago (Econometrics); Northwestern (Econometrics); Oxford (Statistics, Applied Probability & Operational Research); Cemmap & UCL (Econometrics); Oxford (Econometrics); CREST (MicroEconometrics); CREST (Statistics);  
**2011** : University of Paris 10 Nanterre (Statistics); LSE (Econometrics and Statistics); Queen Mary University of London (Econometrics Reading Group); Aix-Marseille (Statistics and Econometrics); Boston College (Econometrics); Harvard-MIT (Econometrics); Yale (Econometrics); Brown (Econometrics); Princeton (Statistics); Princeton (Econometrics); University of Valparaíso (Statistics); Institut Henri Poincaré (Parisian Statistics Seminar); Université Technologique de Compiègne (Applied Mathematics);  
**2010** : University of Toulouse Paul Sabatier (Statistics); Bocconi (Statistics and Probability Seminar); University of Paris 6 and Paris 7 (Reading Group in Statistics); University of Chile (Stochastic Modeling); University of Valparaíso (Statistics); CREST (Reading Group in Machine Learning and Sparsity); University of Paris 6 (Statistics);  
**2009** : Tokyo University of Science (Mathematics); TSE (Econometrics); University of Lille 1 (PDE and Numerical Analysis);  
**2008** : Cemmap & UCL (Econometrics); CREST (Econometrics); Humboldt-TU (Berlin Colloquium in Probability Theory); Institut Henri Poincaré (Parisien Statistics Seminar);  
**2007** : Mittag-Leffler Institute (Postgraduate Seminar at the Stochastic Partial Differential Equation semester);  
**2006** : Brown (Stochastic Systems); Yale (Econometrics Lunch); Courant Institute of Mathematical Sciences & NYU (Probability and Mathematical Physics); Yale (Statistics); Yale (Econometrics); Columbia (Probability); University of Rennes 1 (Triangular Stochastic Processes Seminar); Universitat de Barcelona (Probability); INSEE-DSDS; CREST (Statistics);  
**2005** : University of Paris 13 (Probability and Statistics); University of Paris 1 (Statistical Modelling in the Social Sciences)

## II - Academic leadership

### Grants

**TSE Senior grant**, 2021-2026

**ERC POEMH**, PI : Parsimony and operator methods for endogeneity and multiple sources of unobserved heterogeneity, 2014-2021

**ANR IPANEMA**, PI at CREST until laureate of ERC POEMH : Inverse problems and parsimony for econometric modelling and applications, 2013-2017

**Labex ECODEC**, PI of the axis "New challenges for new data", 2012-2014

**Center for Data Science**, Projet IDEX Paris-Saclay, 2013-2014

**ANR STOSYMAP**, Stochastic systems in Mathematics et mathematical physics, 2012-2015

**ANR BANHDITS**, Nonparametric Bayesian Statistics, high-dimension and simulation, 2011-2014

**CONICYT**, Nonparametric methods in Economics with K. Bertin (University of Valparaíso), 2010-2012.

## Conference organization

2012, 2013 and 2014 *ENSAE-ENSAI Statistics meetings*  
*Stats in Paris - a school and conference on Econometrics and Statistics of networks* 2012  
*Stats in the Château - a summer school in Econometrics and Statistics : high-dimensional estimation and Ill-posed inverse problems and their applications to Economics* 2009

## Member of the scientific committee of

Journées MAS de la SMAI (Poitiers, 2024, scientific committee) IAAE - Applied Econometrics conference (Sapporo, 2017)  
EC2 (Toulouse, 2016)  
IAAE - Applied Econometrics conference (Milan, 2016)  
SFDS conference (Montpellier, 2016)

## Seminar organization

Co-organizer of the Decision Mathematics and Statistics Seminar (TSE, 2017-2018 and 2021-2023)  
Co-organizer of the Econometrics and Empirical Economics seminar (TSE, 2015-2017)

## Member of Ph.D. Committees other than own students

Estelle Medous (TSE, 2023)  
Hippolyte Boucher (TSE, 2022)  
Cabral Amilcar Chanang Tondji (Paris-Est 2020), external referee  
Felix Beroud (Lyon 1), member of the follow-up committee  
Xintong Han (TSE, 2017, president of the jury)  
Andrii Babii (TSE, 2017, president of the jury)  
E. Lesage (ENSAI, 2013)  
Q. Paris (University of Rennes 1, 2013, president of the jury)  
J. Stehlé (University of Aix-Marseille , 2012)  
P. Rochet (University of Toulouse Paul Sabatier and Capitole, 2011)

## Research visits

March-August 2019, University of Chicago  
March 2019, Berkeley  
February 2019, Stanford  
February 2019, Duke University  
June 2017, Yale University  
April-July 2014, University of Chicago  
January 2013, University of Pisa  
September 2012, University of Braga  
July 2012, University of Kyoto  
Avril, 2012, University of Chicago  
Spring 2010 and May 2011, University of Valparaíso  
Octobre 2009, University of Kyoto

January and March 2010, Newton Institute for Mathematical Sciences (Cambridge), invited researcher during the semester "Stochastic Partial Differential Equations"

April 2008, University of Humboldt

November - December 2007, Mittag-Leffler Mathematics Research Institute, invited researcher during the semester "Stochastic Partial Differential Equations and Applications"

July 2007 "Travel Grant" for the 32nd conference "Stochastic Processes and their Applications"

Spring 2006 (1 month), Centro di Ricerca Matematica Ennio de Giorgi (Pisa), young researcher grant for the semester "Stochastic Analysis and Stochastic Partial Differential Equations"

### **Referee for**

**Journals :** *AIMS Proceedings, American Economic Review, Annals of Statistics, Annals of Probability, Annals of Applied Probability, Applied and Computational Harmonic Analysis, Bernoulli, Econometrica, Econometric Theory, Economie et Statistiques, Electronic Journal of Statistics, Journal of the American Statistical Association, The Journal of Applied Econometrics, Journal of Business and Economic Statistics, Journal of Econometrics, Journal of Machine Learning Research, Journal of Mathematical Analysis and Applications, Journal of Mathematical Physics, Journal of Political Economy, Journal of the Royal Statistical Society : B, Journal of Statistical Planning and Inference, The Econometrics Journal, The RAND Journal of Economics, The Review of Economics and Statistics, Markov Processes and Related Fields, Quantitative Economics, Review of Economic Studies, SIAM Journal on Mathematical Analysis*

**Grants :** *ERC, Swiss FNS, Maurice Falk Institute for Economic Research (Israel), National Science Foundation.*

**Discussant at :** various French Econometric meetings, Financial Econometrics conferences, Postal conference meetings, among others.

## **III - Supervision**

### **Ph.D. supervision**

**J. Duan** (50%, Mathematics, funded by national doctoral contract, 2022-2025),

**J. Beyhum** (100%, Mathematics, funded by ERC POEMH, 2016-2020), J. Beyhum is assistant professor at ENSAI (Rennes)

**C. Gaillac** (100%, Economics, partially funded by ERC POEMH2015-2021), C. Gaillac is now postdoc at Oxford

### **Postdoc supervision (100%)**

**L. Laage** (100%, funded by ERC POEMH, 2019-2020), L. Laage is now assistant professor at Georgetown University

**C. Rose** (100%, funded by ERC POEMH, 2015-2017), C. Rose is now assistant professor at the University of Queensland in Australia

**Q. Paris** (50%, funded by LABEX ECODEC : 2013-2014), Q. Paris is now assistant professor at Higher School of Economics in Moscow

### **Master student supervision**

TL Nguyen Le (TSE, 2023) : Kernel PCA and unobserved heterogeneity  
J. Duan (TSE, 2022) : Treatment effects, neural networks and influence function  
M. Chebli (TSE, 2022) : A new method for estimating the the average treatment effect when the full support assumption on the propensity score does not hold  
S.-H. Kang (TSE, 2021) : On applications of [arXiv:1904.09192](https://arxiv.org/abs/1904.09192)  
N. Marini (TSE, 2021) : Interactive effects in multidimensional panel data models  
M. Nahba (TSE, 2017, partly) : Random coefficients in treatment effect models  
J. L'Hour (ENSAE, 2014, partly) : High-dimensional statistics for panel data models  
J.-M. John-Mathews (ENSAE and PSE, 2014) : Procedures robust to weak IVs and high-dimensional methods  
T. Merly-Alpa (University of Paris-Sud 11, ENS de Lyon, 2013) : Nonignorable nonresponse and selection model allowing for nonmonotonic responses  
H. Broome (Ecole Polytechnique, 2012) : Nonparametric modeling of unobserved heterogeneity in public policy evaluation  
J. Stehlé (ENSAE, 2011) : On dynamic models of social interactions  
V. Bellamy (ENSAI, 2006) : Multiple imputations in the French family expenditure survey  
M.-A. Ben Hamouda, S. Blanchet, M. Durut, S. Pétrès (ENSAE, 2006) : Nonignorable nonresponse in the French employment survey  
S. Diaby (University of Versailles Saint-Quentin, 2005) : Imputation and robust regression on the French wealth survey

### **IV - Master 2 and Ph.D. courses**

University of Toulouse Capitole : *Reading course on Machine Learning in Structural Econometrics* (Ph.D., 2021-2022), *Machine Learning* (Ph.D., Mres, co-taught with P. Lavergne, 2023-), *Simulation-based econometrics* (Ph.D., Mres, co-taught with P. Lavergne, 2023), *High-dimensional Econometrics and Machine Learning* (Ph.D. DEEQA, 2020), *Random coefficients models and high-dimensional econometrics* (Ph.D. DEEQA, 2014, 2015, 2018), *Econometrics 2* (M2 ETE co-taught with K. Jochmans, 2023-), *Econometrics 1* (M2 ETE co-taught with J.-P. Florens in 2014, fully taught in 2015-2019, co-taught with N. Meddahi in 2020-), *High-dimensional models* (M2 EEE, 2016-), *Topics in Econometrics and Empirical Economics* (M2 ETE, co taught in 2018 and 2020)

University of Chicago : *Random coefficients models and high-dimensional econometrics* (Ph.D., 2014)

University of Braga : *Stochastic partial differential equations* (Ph.D., 2012)

ENSAI : *Inverse problems and high-dimensional estimation in Econometrics* (Ph.D., 2012)

ENSAE ParisTech : *Recent developments in semi and nonparametric Econometrics* (M2 APE, co-taught with X. d'Haultfoeuille in 2013 and A. Simoni in 2014)

Yale : *Econometrics V* (co-taught with D. Andrews, 2007)

### **V - Collective responsibility**

Director (second year master) of the Mathematics and Economic Decision master at TSE (2021-)

Coordinator of the courses in Econometrics at TSE (2019-)

Member of the board of the Mathematics department (TSE, 2017-)

Secretary of the Mathematics of Decision Making and Statistics group (TSE, 2017-2021)

Researcher at TSE-P (research partnership with La Poste, 2014-)

Member of the Recruiting Committee (TSE, 2017-)

Member of the Junior Recruiting Committee (TSE, 2017-2018)

Past :

Member of the CODEP of TSE (TSE 2018-2020)

Member of the Recruitment Committee at University of Lausanne (2015), ENSAE (2008, 2010, 2012, 2014)

Member of the reading committee for a senior hire (TSE, 2016)

Member of the junior recruitment committee (TSE, 2017-2018)

In charge of the junior job market for the Econometrics and Empirical Economics and Mathematics of Decision Making and Statistics groups (TSE, 2014-2015)

Assistant director of studies (ENSAE ParisTech, 2007-2010)

In charge of the Mathematics teaching department (ENSAE ParisTech, 2007-2011)

In charge of master theses "Groupes de Travail" (ENSAE ParisTech, 2007-2012)

Examiner in Mathematics (Khagne BL competition to enter ENSAE ParisTech, 2009 and 2010)

Examiner in Statistics (Administrateur de l'INSEE internal competition, 2006)