

CURRICULUM VITAE

CONTACT

Guillaume CHAUVET

Born February 18, 1977, in Clermont-Ferrand (63). French nationality

Ecole Nationale de la Statistique et de l'Analyse de l'Information (ENSAI)

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PROFESSIONAL POSITIONS

2009-	Assistant Research Professor. Ensai, Bruz.
2009-2012	Head of the Biostatistics Specialization.
2007-2009	Methodologist. Regional direction of INSEE, Rennes.
2004-2009	Junior researcher in survey methodology. CREST, ENSAI, Bruz.
2001-2003	Methodologist for the French Census. Regional direction of INSEE, Lyon.
1999-2001	Technical support volunteer. Regional service of INSEE, Fort de France.

EDUCATION

2014	Habilitation à Diriger des Recherches. University of Rennes 1.
2007	PhD in Statistics. University of Rennes 2.
2004	MS in Statistics. University of Rennes 1.
1997-1999	Civil servant training. ENSAI, Bruz.

RESEARCH INTERESTS

Balanced sampling, variance estimation, resampling techniques, calibration methods, asymptotic results, treatment of non-response, forest sampling, spatial sampling, epidemiology, record linkage.

SCIENTIFIC DUTIES

2023-2024	Member of the scientific committee of the 13th French-speaking conference in survey sampling (Esch-Belval, Luxembourg)
2022-2023	Member of the scientific committee of the 12th French-speaking conference in survey sampling (Paris, France)
2021-2022	Head of the Steering Committee of the 7th French-speaking conference on teaching statistics (CFIES) (Bruz, France)
2020-2024	External Examiner for the MSc Official Statistics and MSc Data Analytics for Government (university of Southampton)
2018-2021	Head of the Scientific Council of the Centre d'Études des Supports de Publicité (CESP)
2019-	Member of the scientific committee (CST) of IGN, section "Inventaire des ressources forestières"
2019-2022	Co-head of the specialized group in survey sampling of the french statistical society (SFDS)
2018	Member of the scientific committee of the conference "Survey Methods and their Use in Related Fields" (SMURF) (Neuchâtel, Switzerland)
2017-2018	Member of the scientific and of the steering committee of the European Course in Advanced Statistics (ECAS) on statistical privacy (Bruz, France)
2017-2018	Member of the scientific committee of the 50th Journées de Statistique of the SFDS (Saclay, France)
2016-2019	Head of the specialized group in survey sampling of the french statistical society (SFDS)
2016-2018	President of the Scientific Council of the CESP
2015-2016	Head of the scientific committee of the 9th French-speaking conference in survey sampling (Gatineau, Canada)
2015-2018	Member of the comity of experts for the impregnation study of Santé Publique France (SPF) on the mine sites of the Gard department
2014-2015	Member of the scientific committee of the Journées de Méthodologie Statistique (JMS) of INSEE (Paris, France)
2014-2019	Member of the scientific council of the National Program for biomonitoring for the Esteban survey (SPF, Paris, France)
2013-2014	Co-head of the scientific committee of the 8th French-speaking conference in survey sampling (Dijon, France)
2012-2013	Member of the scientific committee of the 45th Journées de Statistique of the SFDS (Toulouse, France)
2012-2013	Member of the scientific and of the steering committee of the 7th French-speaking conference in survey sampling (Bruz, France)
2008-	Member of the scientific committee of the Journées de Méthodes Avancées pour l'Analyse de Sondages Complexes (MAASC)

STUDENT ADVISING

2021-2025	Jean Rubin. <i>Bootstrap methods in sample surveys.</i> Trinh Duong, joint with O. Bouriaud (IGN). <i>Dynamic sampling and inference for a smart forest monitoring with application to the french National Forest Inventory.</i>
2019-2022	Thanh Huan Vo, joint with V. Garès (INSA). <i>Record Linkage for Medical data.</i>
2018-2021	Marie-Astrid Metten, joint with J-F. Viel and N. Costet (IRSET). <i>Missing data in cohort studies: comparison between Inverse Probability Weigthing and Multiple Imputation.</i>
2013-2016	Hélène Juillard, joint with S. Legleye (Ined) and A. Ruiz-Gazen (TSE). <i>Estimation and variance estimation methods in a longitudinal survey with application to the ELFE survey</i>

EXTERNAL EXAMINOR FOR PhD JURYS

2020	Martina Patone, university of Southampton. <i>Topics of statistical analysis with social media data</i>
2018	Audric Vigier (university of Nantes). <i>Development of a spatial management strategy evaluation framework: application to the North-East Atlantic northern hake stock and to the Bay of Biscay mixed demersal fisheries</i>
2016	Cécile Souty (university of Paris VI). <i>Methods for epidemiological surveillance data analysis : application to the Sentinelles network (France)</i>

MEMBER OF PhD JURYS

2013	Jean-Paul Lucas (university of Nantes). <i>Contamination des logements par le plomb : prévalence des logements à risque et identification des déterminants de la contamination</i>
2012	Pauline Lardin (university of Burgundy). <i>Estimate the mean electricity consumption curve by survey and taking auxiliary information into account</i>
2012	Muhammad Shehzad (university of Burgundy). <i>Penalization and data reduction of auxiliary variables in survey sampling</i>

MEMBER OF CSI FOR PhD STUDENTS

2022-	Alexis Goblot (IETR, university of Rennes). <i>Systèmes antennaires quasi-optiques reconfigurables en bande sub-millimétrique</i>
2019-2022	Ankit Sagar (LIF, university of Lorraine). <i>Multisource Forest Inventory: A generic and flexible tool for forest resource estimation and mapping at a fine scale</i>
2019-2022	Marine Renier (university of Caen-Normandie). <i>Exposition professionnelle à des pesticides et risque de cancers de la prostate, du sein et de l'ovaire à partir de la cohorte AGRICulture et CANcer (AGRICAN)</i>

CONTRACTS AND CONSULTING

2025-	Expertise for Allianz France on the use of non-probability samples. <i>Using online panels to estimate the Net Promoter Score</i> , 37 pages.
2024-	Sampling expert for the Multiple Indicator Cluster Surveys (MICS) of UNICEF WCARO (Cameroon and Nigeria).
2023-	Expertise for the Ministry of Agriculture on the sampling and estimation methods of the Teruti Lucas survey for cross-sectional and longitudinal estimates, in collaboration with Philippe Brion (Irmair). <i>Sampling and estimation in the Teruti survey</i> , 29 pages.
2023-	Expertise for the Scientific and Technical Council (CST) of IGN on longitudinal estimation in the French national forest inventory (NFI) <i>Report on the estimation methods in the French NFI</i> , 8 pages.
2022-2023	Pro bono statistical support with Statistics without borders (SWB) <i>Advice to Ground Truth Solutions (GTS) for their surveys on people affected by humanitarian crises: sampling design, weights, resampling methods.</i> <i>Advice to IMPACT concerning their Multi-Sector Needs Assessment (MSNA) surveys in global regions facing acute humanitarian needs: review of the statistical and data analytical methodologies.</i>
2021-2022	Bootstrap for cross-sectional estimations of the Life History and Wealth survey. Contract for INSEE, joint with Jean Rubin.
2017-2018	Cross-sectional estimation for a split-panel survey: estimation and bootstrap variance estimation. Contract for the Household Finance and Consumption Network of the European Central Bank. <i>Bootstrap variance estimation for a cross-sectional estimation</i> , 45 pages. <i>Longitudinal estimation for a panel survey: computation of weights and bootstrap variance estimation</i> , 34 pages.
2016-2018	Cross-sectional and longitudinal estimations for a panel survey. Contract for the Commissariat Général à l'Égalité des Territoires (CGET). <i>Estimation transversale pour l'enquête PPV</i> , 9 pages. <i>Calcul d'une pondération longitudinale pour l'enquête PPV</i> , 23 pages. <i>Estimation de variance pour une estimation transversale et pour une estimation longitudinale de l'enquête PPV</i> , 32 pages.
2015	Audit of the 2013/2014 national survey on hunting samples of the Office National de la Chasse et de la Faune Sauvage.
2014	Audit of the methodology of the SYCI2 survey of La Poste Recherche et Développement. Joint with Cyril Favre-Martinoz. <i>Rapport sur la note méthodologique du projet SYCI2</i> , 8 pages.
2014	Estimation of the consumption of customers for ERDF, joint with Cyril Favre-Martinoz and Eric Lesage.
2009-2010	Estimation of tariff fraud for SNCF, joint with Jean-Claude Deville.
2006-2007	Methodological support for the MORGOAT survey of the Observatoire Régional sur le Tourisme en Bretagne (ORTB). Joint with J-C. Deville.
2006-2007	Influence of a weighting variable on methods of data mining. Contract for France Telecom Recherche et Développement, joint with Denys Pommeret and Mohammed Tirari (Ensai). <i>Prise en compte de la pondération des individus dans les méthodes de Data Mining</i> , 210 pages.
2005	Comparison of three calibration softwares. Contract for Statistics Belgium, joint with J-C. Deville, Josiane Le Guennec and Mohammed Tirari. <i>Evaluation de trois logiciels de calage : g-Calib 2.0, Calmar 2 et Bascula 4.0</i> . Working Paper n°11, Statistics Belgium, 92 pages.

PUBLICATIONS

- (1) G. Chauvet, Y. Tillé (2006). *A fast algorithm of Balanced Sampling*. Computational Statistics, 21, 53-61.
- (2) G. Chauvet, Y. Tillé (2007). *Application of Fast SAS Macros for Balancing Samples to the Selection of Addresses*. Case Studies in Business, Industry and Government Statistics, 2.
- (3) G. Chauvet (2009). *Stratified Balanced Sampling*. Survey Methodology, 35, 115-119.
- (4) D. Haziza, G. Chauvet, J.C. Deville (2010). *A note on sampling and estimation in the presence of cut-off sampling*. Australian and New-Zealand Journal of Statistics, 52, 303-319.
- (5) F.J. Breidt, G. Chauvet (2011). *Improved variance estimation for balanced samples drawn via the Cube method*. Journal of Statistical Planning and Inference, 141, 479-487.
- (6) G. Chauvet, D. Bonnery, J.C. Deville (2011). *Optimal inclusion probabilities for balanced sampling*. Journal of Statistical Planning and Inference, 141, 984-994.
- (7) G. Chauvet, J.C. Deville, D. Haziza (2011). *On balanced random imputation in surveys*. Biometrika, 98, 459-471.
- (8) G. Chauvet (2011). *On variance estimation for the French Master Sample*. Journal of Official Statistics, 27(4), 651-668.
- (9) M. Chandesris, G. Chauvet, J.C. Deville (2011). *Allocation optimale pour un plan à plusieurs degrés. Application à l'estimation de la fraude tarifaire grandes lignes à la SNCF*. Journal de la SFdS, 152(4), 47-59.
- (10) G. Chauvet, D. Haziza (2012). *Fully efficient estimation of coefficients of correlation in the presence of imputed data*. Canadian Journal of Statistics, 40(1), 124-149.
- (11) G. Chauvet (2012). *On a characterization of ordered pivotal sampling*. Bernoulli, 18(4), 1320-1340.
- (12) F.J. Breidt, G. Chauvet (2012). *Penalized Balanced Sampling*. Biometrika, 99(4), 945-958.
- (13) G. Chauvet, G. Tandeau de Marsac (2014). *Estimation methods on multiple sampling frames in two-stage sampling designs*. Survey Methodology, 40(2), 367-378.
- (14) D. Haziza, C-O. Nambeu, G. Chauvet (2014). *Doubly robust imputation procedures for populations containing a large amount of zeroes in surveys*. Canadian Journal of Statistics, 42(4), 650-669.
- (15) G. Chauvet (2015). *Coupling Methods for multistage sampling*. Annals of Statistics, 43(6), 2484-2506.
- (16) G. Chauvet (2016). *Variance Estimation for the 2006 French Housing Survey*. Mathematical Population Studies, 23(3), 147-163.
- (17) H. Boistard, G. Chauvet, D. Haziza (2016). *Consistency of the estimated distribution function with missing data under a non-response model*. Scandinavian Journal of Statistics, 43(3), 683-699.
- (18) D. Hajage, Y. De Rycke, G. Chauvet, F. Tubach (2016). *Estimation of conditional and marginal odds ratios using the prognostic score*. Statistics in Medicine, 36(4), pp 687-716.
- (19) G. Chauvet, D. Haziza et E. Lesage (2017). *Examining some aspects of balanced sampling in surveys*. Statistica Sinica, 27(1), 313-334.
- (20) G. Chauvet (2017). *A comparison of pivotal sampling and unequal probability sampling with replacement*. Statistics and Probability Letters, 121, 1-5.
- (21) H. Juillard, G. Chauvet, A. Ruiz-gazen (2017). *Estimation under cross-classified sampling with application to a childhood survey*. Journal of the American Statistical Association, 112(518), pp. 850-858.
- (22) H. Juillard, G. Chauvet (2018). *Variance estimation under monotone non-response for a panel survey*. Survey Methodology, 44(2), pp. 269-289.
- (23) G. Chauvet, C. Goga (2018). *Gini coefficient and Gini coefficient change: linearization versus Bootstrap to estimate the variance*. Survey Methodology, 44(1), 17-42.
- (24) G. Chauvet, W. Do Paco (2018). *Exact balanced random imputation for sample survey data*. Computational Statistics and Data Analysis, 128(1), 1-16.

PUBLICATIONS (CONTINUED)

- (25) H. Chaput, G. Chauvet, D. Haziza, L. Salembier, J. Solard (2018), *Joint imputation procedures for categorical variables with application to the French Wealth Survey*. Statistics and Applications, 16, 123-144 (invited paper for a special issue in honor of Professor J.N.K. Rao).
- (26) L. Belin, G. Chauvet, Y. De Rycke, D. Hajage, F. Tubach (2019), *Closed-form variance estimator for weighted propensity score estimators with survival outcome*. Biometrical Journal, 60(6), 1151-1163.
- (27) B. Gelein, G. Chauvet (2020), *Preserving the distribution function in surveys in case of imputation for zero inflated data*. Journal of Statistical Planning and Inference, 206, 84-99.
- (28) G. Chauvet, R. Le Gleut (2020), *Inference under pivotal sampling: properties, variance estimation and application to tessellation for spatial sampling*. A. Scandinavian Journal of Statistics, 1-24.
- (29) G. Chauvet, A.A. Vallée (2020), *Consistency of estimators and variance estimators in two-stage sampling*. Journal of the Royal Statistical Society Series B, 82(3), 797-815.
- (30) G. Chauvet (2020), *Large sample properties of the Midzuno sampling scheme with probabilities proportional to size*. Statistics and Probability Letters, 159.
- (31) G. Chauvet (2021). *A note on Chromy's sampling procedure*. Journal of Survey Statistics and Methodology, 9(5), pp. 1050-1061.
- (32) L. Daniel, M. Michot, M. Esvan, P. Guérin, G. Chauvet, F. Pelé (2020). *Perceptions, knowledge and practices regarding indoor environmental pollution: a quantitative study among adults of childbearing age*. International Journal of Environment Research and Public Health, 17(20).
- (33) P. Bessonneau, G. Brilhault, G. Chauvet, C. Garcia (2021). *With-replacement bootstrap variance estimation for household surveys: principles, examples and implementation*. Survey Methodology, 47(2), pp. 313-347.
- (34) G. Chauvet, C. Goga (2022). *Asymptotic efficiency of the calibration estimator in a high-dimensional data setting*. Journal of Statistical Planning and Inference, 217, pp. 177-187.
- (35) V. Garès, G. Chauvet, D. Hajage (2022). *Closed-form variance estimators for weighted and stratified dose-response function estimators using generalized propensity score*. Biomedical Journal, 64(1), pp. 33-56.
- (36) M-A. Metten, N. Costet, J-F. Viel, G. Chauvet (2022). *Inverse probability weighting to handle attrition in cohort studies: some guidance and a call for caution*. BMC Medical Research methodology, 22(45).
- (37) G. Chauvet (2022). *A cautionary note on the Hanurav-Vijayan sampling algorithm*. Journal of Survey Statistics and Methodology.
- (38) Z. Chupeau, F. Mercier, E. Rouxel, B. Le Bot, G. Chauvet, T. Siméon, N. Bonvallot, C. Zaros, C. Chevrier, P. Glorennec (2022). *Pre- and post-natal exposure of children to organophosphate flame retardants: A nationwide survey in France*. Environment International, 168.

PUBLICATIONS (CONTINUED)

- (39) O. Bouriaud, P. Brion, G. Chauvet (2023). *An extension of the weight share method when using a continuous sampling frame*. Survey Methodology, 49(1), pp. 139-162
- (40) T-H. Vo, G. Chauvet, A. Happe, E. Oger, S. Paquelet, V. Garès (2023). *An extension of Fellegi-Sunter probabilistic record linkage model for mixed-type data with application to the French national health data system*. Computational Statistics and Data Analysis, 179.
- (41) T-H. Vo, v. Garès, L-C. Zhang, A. Happe, E. Oger, S. Paquelet, G. Chauvet (2024). *Cox regression with linked data*. Statistics in Medicine, 43, pp. 296-314.
- (42) A. Kostouraki, D. Hajage, B. Rachet, E.J. Wiliamson, G. Chauvet, A. Belot, C. Leyrat (2024). *On variance estimation of the Inverse Probability-of-Treatment Weighting estimator: a tutorial for different types of propensity score weights*. Statistics in Medicine, 43, pp. 2672-2694.
- (43) G. Chauvet (2024). Discussion de l'article "Les contributions de Jean-Claude Deville à la théorie des sondages et à la statistique officielle". Survey Methodology, 49(2), pp 299-304.
- (44) O. Bouriaud, P. Brion, G. Chauvet, T.H.K Duong, M. Pulkkinen (2024). *The weight share method in forest inventories: refining the relation between points and trees*. To appear in Canadian Journal of Forest Research.
- (45) T.H.K Duong, O. Bouriaud, G. Chauvet (2024). *A new framework for spatial surveys of natural populations*. Journal of Survey Statistics and Methodology, 13(1), pp. 197-222.
- (46) M. Guadarrama, J-Y. Bienvenue, G. Chauvet (2025). *Comparison of approaches for variance Estimation with application to a survey on discrimination*. Journal of Official Statistics, 41(1), pp. 202-237.
- (47) G. Chauvet (2025), A review of bootstrap methods for survey sampling. The Survey Statistician, 91, pp 14-25.
- (48) J. Rubin, G. Chauvet (2025). *Asymptotic properties of cross-classified sampling designs*. To appear in Canadian Journal of Statistics.
- (49) S. Legleye, G. Chauvet, T. Merly-Alpa, N. Soullier (2025). *Who are the on-line panelists and why they cannot represent the general population*. Survey methods: insights from the field.

WORK IN PROGRESS

- (50) G. Chauvet, M. Gerber (202X), *Exponential inequalities for sampling designs*. Submitted.
- (51) T.H.K Duong, G. Chauvet, O. Bouriaud, (202X). *Adaptive disturbance sampling in forest inventories using two-phase sampling for stratification*. Submitted.
- (50) G. Chauvet, M. Pulkkinen (202X). *Asymptotic properties of estimators for continuous sampling designs with application to environmental surveys*.
- (51) J. Rubin, E. Gros, O. Guin, K. Larbi, G. Chauvet (202X). *Bootstrap variance estimation for a rotating panel survey: case of the Life History and Wealth French Survey*.
- (52) M-A. Metten, N. Costet, J-F. Viel, G. Chauvet (202X), *Reflection on modern methods: a note on variance estimation when using inverse probability weighting to handle attrition in cohort studies*.
- (53) D. Hajage, G. Chauvet, Y. De Rycke, F. Tubach (202X), *Variance estimation when weighting using the estimated propensity score to estimate a treatment effect on a binary outcome*.
- (54) G. Chauvet (202X), *Bootstrap for multistage sampling and unequal probability sampling of primary sampling units*.
- (55) G. Chauvet (202X), *Simplified variance estimation for multistage sample surveys*.
- (56) G. Chauvet (202X), *A note on the consistency of the Narain-Horvitz-Thompson estimator*.

EDITORIAL BOARDS

2023-	Associate editor of Environmetrics.
2022-2024	Associate editor of Journal of Statistical Computation and Simulation.
2019-	Associate editor of Survey Methodology.
2019-	Associate editor of Journal of Official Statistics.
2018-2022	Associate editor of Journal of the Royal Statistical Society, Series A.
2014-2021	Associate editor of the Journal de la SFDS.
2013-2014	Guest editor (joint with D. Haziza) of a special issue on survey sampling of the Journal de la SFDS.

REFERREING

More than 100 reports for peer-reviewed statistical journals, including:

AIMS Mathematics (3), Annales de l'ISUP (1), Austrian Journal of Statistics (1), Bernoulli (1), Biometrical Journal (2), Biometrics (2), Biometrika (2), BMC Medical Research Methodology (3), Brazilian Journal in Probability and Statistics (1), Canadian Journal of Forest Research (2), Columbian Journal in Statistics (1), Communications in Statistics (1), Computational Statistics and Data Analysis (3), Économie et Statistique (1), Electronic Journal of Statistics (1), Environmental and Ecological Statistics (1), Epidemiologic Methods (1), Fisheries research (1), Hacettepe Journal of Mathematics Statistics (1), IAOS Journal (1), International Statistical Review (3), Journal of Agricultural, Biological, and Environmental Statistics (1), Journal of the American Statistical Association (4), Journal of Multivariate Analysis (1), Journal of Official Statistics (10), Journal of Probability and Statistics (1), Journal of the Royal Statistical Society A (2) and B (2), Journal of Statistical Computation and Simulation (1), Journal de la SFdS (1), Journal of Statistical Planning and Inference (3), Journal of Statistical Theory and Practice (1), Journal of Survey Statistics and Methodology (3), Mathematical Population Studies (5), Mathematics (1), Metrika (1), Metron (4), Probability and Mathematical Statistics (1), Quality and Quantity (1), Revstat (2), Scandinavian Journal of Statistics (1), Science Progress (1), Scientific Reports (1), Sociological Methods and Research (1), Statistica Neerlandica (1), Statistica Sinica (3), Statistical Methods and Applications (2), Statistics(1), Statistics and Computing (1), Statistics in Transition (1), Statistics and Probability Letters (3), Survey Methodology (8), Transactions in GIS (1).

INVITED TALKS

- 2026 Bootstrap methods for environmental surveys. Invited talk, Keynote speaker, 14th french-speaking conference on survey sampling (Vannes, France).
- 2025 Properties of continuous sampling designs with application to environmental surveys. Colloquium in honor of Yves Tillé (Neuchâtel, Switzerland).
- 2025 Bootstrap methods in survey sampling with focus on the rescaling bootstrap. Keynote speaker, BANOCOSS 2025 (Vilnius, Lithuania).
- 2023 An extension of the weight share method when using a continuous sampling frame - Application to the French national forest inventory. Keynote speaker, ITACOSM 2023 (Rende, Italy).
- 2022 Bootstrap variance estimation for a rotating panel survey: case of the Life History and Wealth French Survey. Invited session, ITACOSM 2022 (Perugia, Italy).
- 2021 Simplified variance estimation for multistage sample surveys. Invited session, CMStatistics (London, United Kingdom).
- 2021 Estimation de variance par bootstrap : une approche pragmatique. Conférence d'ouverture, 11th french-speaking conference on survey sampling (Brussels, Belgium).
- 2018 Estimation de variance simplifiée pour les enquêtes à plusieurs degrés, 10th french-speaking conference on survey sampling (Lyon, France).
- 2018 Coupling methods in survey sampling. Survey Methods and their Use in Related Fields (SMURF) (Neuchâtel, Switzerland).
- 2017 Properties of pivotal sampling with application to spatial sampling, 65th Session of the International Statistical Institute (ISI) (Marrakech, Morocco).
- 2017 Properties of pivotal sampling with application to spatial sampling and sampling in datastreams, 49èmes Journées de la Société française de Statistique (Avignon, France).
- 2016 Exact balanced random imputation, 5th International Conference on Establishment Surveys (Geneva, Switzerland).
- 2015 Exact balanced random imputation, Joint Statistical Meeting (Seattle, United States).
- 2013 Doubly robust inference for complex parameters in the presence of missing survey data, Graybill Conference on Modern Survey Statistics, (Fort Collins, Colorado).
- 2010 Balanced random imputation, Journées MAASC (Dijon, France).
- 2009 Improved variance estimation for balanced samples drawn via the Cube method, Colloquium in honor of Jean-Claude Deville (Neuchâtel, Switzerland).
- 2008 Bootstrap variance estimation for two-stage sampling, 40èmes Journées de la Société française de Statistique (Ottawa, Canada).
- 2008 Bootstrap methods in survey sampling, 5th french-speaking conference on survey sampling (Marseille, France).
- 2007 A fast method of balanced sampling, 55th Session of ISI (Lisbon, Portugal).

TEACHING

2024	Workshop on bootstrap variance estimation, joint with Maria Guadarrama Sanz and Jean Rubin. French-speaking conference in survey sampling, 3h.
2022	Winter school in survey sampling methods (Trento, Italy). Balanced sampling (3h). Calibration and treatment of non-response (3 h).
2021-	Survey sampling, M1. ENSAI, Bruz, 30h.
2019-	Survey sampling, M1. ENSAE, Saclay, 30h.
2017-	Longitudinal surveys, M2. ENSAI, Bruz, 18h.
2006-	Advanced sampling techniques, M2. ENSAI, Bruz, 18h.
2011-2021	Missing data, M1. ENSAI, Bruz, 21h.
2009-2014	Advanced sampling techniques, M1. ENSAI, Bruz, 21h.
2011	Workshop on sampling techniques: sampling, reweighting, variance estimation and small area estimation. Institut Henri Poincaré, Paris, 4 days.
2010-2018	Survey sampling, M1. ENSAI, Bruz, 30h.
2008-2012	Sampling techniques, M2. University of Rennes 2. Enseignement à l'université de Rennes 1 : cours de "Méthodes de Sondages" (M2), 20h.
2009-	Jury for the statistical projects (1st year, 2nd year, 3rd year). ENSAI, Bruz.
2009	Practical in Probability and Statistics, M1. ENS, Bruz, 15h.
2009	Workshop on bootstrap variance estimation. French-speaking conference in survey sampling, 3h.
2007-2016	Trainer for the European Statistical Training Program (ESTP). Federal office of statistics, Neuchâtel, Switzerland.
2006-	Trainer on sampling techniques. Centre d'Etude des Programmes Economiques (CEPE), Paris.
2006-2008	Sampling techniques, M1. ISUP, Paris, 20h.
2004	Workshop on the cube method. Institut Henri Poincaré, Paris, 3h.

INSEE WORKGROUPS

2014-2015	Econometry with survey data
2009-2010	Measure, analysis and documentation of the statistical accuracy of the Census estimates
2009-2010	Infra-municipal estimations with Census data
2008-2009	Use of Census variables influenced by economic conditions
2008-2009	Redesign of the Labour Force survey <i>Calcul de précision associé au tirage de secteurs pour le complément d'échantillon de l'Enquête Emploi.</i> Rapport technique, Insee. <i>Echantillonnage et sous-échantillonnage de secteurs pour l'Enquête Emploi.</i> Technical report, INSEE.
2007-2008	Estimation sur zones mixtes <i>Estimation de précision sur zones mixtes.</i> Technical report, INSEE.
2005-2006	Technical support for households surveys <i>Plan de sondage préconisé pour les extensions locales de l'enquête logement 2006 et travaux réalisés dans les DR pour sa mise en oeuvre.</i> Technical report 102/SES/ISM, INSEE, Rennes.