Samuel Orso

Research Center for Statistics Geneva School of Economics and Management Boulevard du Pont-d'Arve 40 Geneva CH-1205, Switzerland

Phone: +41-22-379-8802

email: Samuel.Orso@unige.ch url: https://www.samorso.ch/ GITHuB: https://github.com/samorso/

Born: March 12, 1987—Geneva, Switzerland

Nationality: Swiss

Current position

Postdoctoral Scholar, Geneva School of Economics and Management, University of Geneva *Lecturer*, Faculty of Business and Management, University of Lausanne

Areas of specialization

Robust statistics • Simulation-based methods

Appointments held

2013-2019	Research Assistant, University of Geneva
2016-2017	Lecturer, University of Applied Sciences and Arts, Western Switzerland
2013	Pollster, Swiss Federal Statistical Office, Neuchâtel

Education

2019	PнD in Statistics, University of Geneva
2013	MSc in Statistics, University of Geneva

Grants & awards

2019	Financial support for conference, Fondation Ernst et Lucie Schmidheiny - 1,000 CHF
2019	SNFS Flexibility Grant - 33,670 CHF
2019	Financial support for conference, Société Académique de Genève - 864 CHF
2016	Financial support for conference, Académie suisse des sciences humaines et sociales - 500 CHF
2013	Best Grade & Best Master Thesis, Pictet Group Charitable Foundation - 4,000 CHF

Publications

THESIS

2013

2020

2018

2016

2019

2019

2013

Orso, Samuel (2019), "Contributions to simulation-based estimation methods," *Doctoral dissertation*. University of Geneva, Switzerland.

doi: 10.13097/archive-ouverte/unige:121536

Orso, Samuel (2013), "Robust Estimation for Bivariate Distribution," *Master's thesis*. University of Geneva, Switzerland.

https://archive-ouverte.unige.ch/unige:33672

Journal articles & proceedings

Guerrier, Stéphane, Jurado, Juan, Khaghani, Mehran, Bakalli, Gaetan, Karemera, Mucyo, Molinari, Roberto, Orso, Samuel, Raquet, John, Schubert, Christine, Skaloud, Jan, Xu, Haotian, Zhang, Yuming (2020), "Wavelet-Based Moment-Matching Techniques for Inertial Sensor Calibration," *IEEE Transactions on Instrumentation and Measurement*.

doi: 10.1109/TIM.2020.2984820 Impact factor: 3.89

Clausen, Philippe, Skaloud, Jan, Orso, Samuel, and Guerrier, Stéphane (2018), "Construction of dynamically-dependent stochastic error models," *IEEE/ION Position, Location and Navigation Symposium (PLANS)*, Monterey, CA, 2018, pp. 1336-1341.

doi: 10.1109/PLANS.2018.8373524

Branca, Mattia, Orso, Samuel, Molinari, Roberto C, Xu, Haotian, Guerrier, Stéphane, Zhang, Yuming, Mili, Nabil (2018), "Is nonmetastatic cutaneous melanoma predictable through genomic biomarkers?," *Melanoma research* 28(1) 21-29.

doi: 10.1097/CMR.000000000000412 Impact factor: 2.615

Guerrier, Stéphane, Orso, Samuel, Victoria-Feser, Maria-Pia (2018), "Parametric inference for index functionals," *Econometrics* 6(2) 22.

doi: 10.3390/econometrics6020022

Guerrier, Stéphane, Mili, Nabil, Molinari, Roberto, Orso, Samuel, Avella-Medina, Marco, Ma, Yanyuan (2016), "A predictive based regression algorithm for gene network selection," *Frontiers in Genetics* 7 97.

doi: 10.3389/fgene.2016.00097 Impact factor: 3.517

WORKING PAPERS

Roberto Molinari, Gaetan Bakalli, Stéphane Guerrier, Cesare Miglioli, Samuel Orso, Olivier Scaillet (2020), "SWAG: A Wrapper Method for Sparse Learning," Swiss Finance Institute Research Paper. arXiv:2006.12837

Guerrier, Stéphane, Karemera, Mucyo, Orso, Samuel, Victoria-Feser, Maria-Pia (2019), "Phase Transition Unbiased Estimation in High Dimensional Settings," *Working paper*. arXiv:1907.11541

Guerrier, Stéphane, Karemera, Mucyo, Orso, Samuel, Victoria-Feser, Maria-Pia (2019), "A simple recipe for making accurate parametric inference in finite sample," *Working paper*. arXiv:1901.06750

Guerrier, Stéphane, Orso, Samuel, Victoria-Feser, Maria-Pia (2019), "Robust Estimation of Bivariate Copulas," *Working paper*.

unige:30307

Talks

Conferences

- Guerrier, Stéphane, Karamera, Mucyo, Orso, Samuel, Victoria-Feser, Maria-Pia (2019, December), "Simulated switched Z-estimation for accurate finite sample inference," 12th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics), London, UK.

 Guerrier, Stéphane, Karamera, Mucyo, Orso, Samuel, Victoria-Feser, Maria-Pia (2019, April), "A simple recipe for making accurate parametric inference in finite sample," Final CRoNoS meeting and Workshop on Multivariate Data Analysis (CRoNoS MDA 2019), Limassol, Cyprus.
- Guerrier, Stéphane, Orso, Samuel, Victoria-Feser, Maria-Pia (2016, August), "Two-step robust estimation of copulae," *22nd International Conference on Computational Statistics (COMPSTAT)*, Oviedo, Spain.
- Guerrier, Stéphane, Molinari, Roberto, Orso, Samuel, Victoria-Feser, Maria-Pia (2014, December), "Bounded-influence robust estimation of copulas," 7th International Conference on ERCIM WG on Computational and Methodological Statistics (ERCIM 2014), Pisa, Italy.
- Guerrier, Stéphane, Orso, Samuel, Victoria-Feser, Maria-Pia (2014, August), "Bounded-influence robust estimation of copulas," *21st International Conference on Computational Statistics (COMPSTAT)*, Geneva, Switzerland.
- Guerrier, Stéphane, Orso, Samuel, Victoria-Feser, Maria-Pia (2014, August), "Bounded-influence robust estimation of copulas," 4th International Conference on Robust Statistics (ICORS), Haale, Germany.

RESEARCH SEMINARS

- Guerrier, Stéphane, Orso, Samuel, Victoria-Feser, Maria-Pia (2016, October), "Two-step feasible M -estimators for complex models," *Research Seminar of the Institute of Transportation and Economics*, Technische Universität Dresden, Dresden, Germany.
- Guerrier, Stéphane, Mili, Nabil, Molinari, Roberto, Orso, Samuel, Avella-Medina, Marco, Ma, Yanyuan (2016, June), "A predictive based regression algorithm for gene network selection," *Epidemiological symposium*, Hôpitaux Universitaires de Genève, Geneva, Switzerland.
- Clausen, Philippe, Skaloud, Jan, Orso, Samuel, and Guerrier, Stéphane (2016, June), "Inertial sensor stochastic calibration under varying environmental conditions," *Environmental engineer talk*, EPFL, Lausanne, Switzerland.
- Guerrier, Stéphane, Orso, Samuel, Victoria-Feser, Maria-Pia (2015, February), "Robust inference for copula models," *Economic Research Seminar*, Technische Universität Humboldt Universität zu Berlin, Berlin, Germany.

Teaching

^{2018-present} Programming tools for data science, MSc Management - Business Analytics, 6 ECTS, University of

Lausanne.

Class' website

Forecasting, MSc Management - Business Analytics, 3 ECTS, University of Lausanne.

Class' website

Multivariate statistics, MBA, University of Applied Sciences and Arts, Western Switzerland, Lau-

sanne.

2016 Statistics 2, BSc, University of Applied Sciences and Arts, Western Switzerland, Geneva.

Service to the profession

2019-present Member of the Geneva School of Economics and Management's Participatory Council (faculty gov-

ernance).

2016-2017 Treasurer for the Geneva Academics in Management and Economics (PhD association).

Served as referee

Advances in Statistical Analysis Computational Statistics