

## Raphaël Huser, Assistant Professor of Statistics

Computer, Electrical and Mathematical Sciences and Engineering (CEMSE) Division  
King Abdullah University of Science and Technology (KAUST), Thuwal 23955-6900, KSA

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Website: <http://cemse.kaust.edu.sa/extstat> (Extreme Statistics Research Group)

Personal information: Born December 9, 1985; Swiss and French citizenships; Married, two children.

## Research Interests

Statistics and theory of extremes, Spatio-temporal statistics, Risk assessment, Copula models, Data science, Environmental statistics (applications to rainfall, temperature, wind speed, landslide data, among others, etc.)

## Education

2013 Ph.D., Statistics, EPFL (*EPFL Doctorate Award 2014*)

2009 M.S., Applied Mathematics, EPFL (M.S. thesis performed at NCAR, Boulder CO, US)

2007 B.S., Mathematics, EPFL

## Professional Employment

2015– Assistant Professor, KAUST, Thuwal, KSA

2014–2015 Postdoctoral Research Fellow, KAUST, Thuwal, KSA

## Publications

\*: Postdocs under my (co-)supervision

\*\* : PhD students under my (co-)supervision

## Journal papers:

- [27] Alam, T., Alazmi, M., Naser, R., Huser, F., Momin, A. A., Astro, V., Hong S., Walkiewicz, K. W., Canlas, C. G., **Huser, R.**, Ali, A. J., Merzaban, J., Adamo, A., Jaremko, M., Jeremko, Ł, Bajic, V. B., Gao, X., and Arold, S. T. (2019+), *Proteome-level assessment of origin, prevalence and function of Leucine-Aspartic Acid (LD) motifs*, *Bioinformatics*, to appear
- [26] Vettori\*\*, S., **Huser, R.**, Segers, J., and Genton, M. G. (2019+), *Bayesian model averaging over tree-based dependence structures for multivariate extremes*, *Journal of Computational and Graphical Statistics*, to appear  
⇒ *ENVR Student Paper Award 2017, Section on Statistics and the Environment, ASA*
- [25] Castro Camilo\*, D., and **Huser, R.** (2019+), *Local likelihood estimation of complex tail dependence structures, applied to U.S. precipitation extremes*, *Journal of the American Statistical Association*, to appear
- [24] Vettori\*\*, S., **Huser, R.**, and Genton, M. G. (2019+), *Bayesian modeling of air pollution extremes using nested multivariate max-stable processes*, *Biometrics*, to appear  
⇒ *Distinguished Student Paper Award 2018, Eastern North American Region (ENAR) of the International Biometric Society*
- [23] Castro Camilo\*, D., **Huser, R.**, and Rue, H. (2019), *A spliced Gamma-generalized Pareto model for short-term extreme wind speed probabilistic forecasting*, *Journal of Agricultural, Biological and Environmental Statistics* 24, 517-534
- [22] Lombardo\*, L., Bakka, H., Tanyas, H., van Westen, C., Mai, P. M., and **Huser, R.** (2019), *Geostatistical modeling to capture seismic-shaking patterns from earthquake-induced landslides*, *Journal of Geophysical Research – Earth Surface* 124, 1958-1980
- [21] **Huser, R.** and Wadsworth, J. (2019), *Modeling spatial processes with unknown extremal dependence class*, *Journal of the American Statistical Association – Theory and Methods* 114, 434-444
- [20] **Huser, R.**, Dombry, C., Ribatet, M., and Genton, M. G. (2019), *Full likelihood inference for max-stable data*, *Stat* 8, e218
- [19] Opitz, T., **Huser, R.**, Bakka, H., and Rue, H. (2018), *INLA goes extreme: Bayesian tail regression for the estimation of high spatio-temporal quantiles*, *Extremes* 21, 441-462

- [18] Lombardo\*, L., Opitz, T., and **Huser, R.** (2018), *Point process-based modeling of multiple debris flow landslides using INLA: an application to the 2009 Messina disaster*, Stochastic Environmental Research and Risk Assessment 32, 2179-2198  
 ⇒ *Highlighted among the top 10 most downloaded 2018 papers in Springer's Environmental Sciences Journals*
- [17] Hofert, M., **Huser, R.**, and Prasad, A. (2018), *Hierarchical archimax copulas*, Journal of Multivariate Analysis 167, 195-211
- [16] Krupskii, P., **Huser, R.**, and Genton, M. G. (2018), *Factor copula models for replicated spatial data*, Journal of the American Statistical Association – Theory and Methods 113, 467-479
- [15] Vettori\*\*, S., **Huser, R.**, and Genton, M. G. (2018), *A comparison of dependence function estimators in multivariate extremes*, Statistics and Computing 28, 525-538
- [14] Lombardo\*, L., Saia, S., Schillaci, C., Mai, P. M., and **Huser, R.** (2018), *Modeling soil organic carbon with Quantile Regression: Dissecting predictors' effects on carbon stocks*, Geoderma 318, 148-159
- [13] **Huser, R.**, Opitz, T., and Thibaud, E. (2017), *Bridging asymptotic independence and dependence in spatial extremes using Gaussian scale mixtures*, Spatial Statistics 21, 166-186
- [12] Castro Camilo\*, D., Lombardo\*, L., Mai, P. M., Jie, D., and **Huser, R.** (2017), *Handling high predictor dimensionality in slope-unit-based landslide susceptibility models through LASSO-penalized Generalized Linear Model*, Environmental Modelling and Software 97, 145-156
- [11] Castruccio, S., **Huser, R.**, and Genton, M. G. (2016), *High-order composite likelihood inference for max-stable distributions and processes*, Journal of Computational and Graphical Statistics 25, 1212-1229
- [10] Naveau, P., **Huser, R.**, Ribereau, P., and Hannart, A. (2016), *Modeling jointly low, moderate and heavy rainfall intensities without a threshold selection*, Water Resources Research 52, 2753-2769
- [9] **Huser, R.**, and Genton, M. G. (2016), *Non-stationary dependence structures for spatial extremes*, Journal of Agricultural, Biological and Environmental Statistics 21, 470-491  
 ⇒ *Award for Best 2016 Paper published in JABES*
- [8] **Huser, R.**, Davison, A. C., and Genton, M. G. (2016), *Likelihood estimators for multivariate extremes*, Extremes 19, 79-103
- [7] Ben Taieb, S., **Huser, R.**, Hyndman, R. J., and Genton, M. G. (2016), *Forecasting uncertainty in electricity smart meter data by boosting additive quantile regression*, IEEE Transactions on Smart Grid 7, 2448-2455
- [6] Davison, A. C., and **Huser, R.** (2015), *Statistics of Extremes*, Annual Review of Statistics and its Application 2, 203-235
- [5] Genton, M. G., Castruccio, S., Crippa, P., Dutta, S., **Huser, R.**, Sun, Y., and Vettori, S. (2015), *Visuanimation in statistics*, Stat 4, 81-96
- [4] **Huser, R.**, and Davison, A. C. (2014), *Space-time modeling of extreme events*, Journal of the Royal Statistical Society – Series B 76, 439-461
- [3] Davison, A. C., **Huser, R.**, and Thibaud, E. (2013), *Geostatistics of dependent and asymptotically independent extremes*, Mathematical Geosciences 45, 511-529
- [2] **Huser, R.**, and Davison, A. C. (2013), *Composite likelihood estimation for the Brown-Resnick process*, Biometrika 100, 511-518
- [1] Anderes, E., **Huser, R.**, Nychka, D., and Coram, M. (2013) *Nonstationary positive definite tapering on the plane*, Journal of Computational and Graphical Statistics 22, 848-865

Contributions to papers with discussion:

- [2] **Huser, R.**, de Carvalho, M., and Lombardo\*, L. (2019) *Discussion of "Visualizing spatiotemporal models with virtual reality: from fully immersive environments to applications in stereoscopic view" by Castruccio et. al*, Journal of the Royal Statistical Society – Series A 182, 419-441
- [1] Bakka, H., Castro Camilo\*, D., Franco-Villoria, M., Freni-Sterrantino, A., **Huser, R.**, Opitz, T., and Rue, H. (2018) *Discussion of "Using stacking to average Bayesian predictive distributions" by Yao et. al*, Bayesian Analysis 13, 917-1003

Book chapters:

- [2] Lombardo\*, L., Opitz, T., and **Huser, R.** (2019), *Numerical recipes for landslide spatial prediction by using R-INLA: A step-by-step tutorial*, In *Spatial Modeling in GIS and R for Earth and Environmental Sciences*, editors H. R. Pourghasemi and C. Gokceoglu, Elsevier, 55-83
- [1] Davison, A. C., **Huser, R.**, and Thibaud, E. (2019), *Spatial extremes with application to climate and environmental exposure*, In *Handbook of Environmental and Ecological Statistics*, editors A. E. Gelfand, M. Fuentes, J. A. Hoeting and R. L. Smith. CRC Press, 711-744

PhD thesis:

- [1] **Huser, R.** (2013), *Statistical Modeling and Inference for Spatio-Temporal Extremes*, Ph.D. thesis, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
  - ⇒ *Lambert Award 2015, Swiss Statistical Society (SSS)*
  - ⇒ *EPFL Doctorate Award 2014, EPFL, Lausanne, CH*

Under review or in revision:

- [6] Hrafnkelsson, B., Jóhannesson, Á. V., Siegert, S., Bakka, H., and **Huser, R.** (2019+), *Max-and-Smooth: a two-step approach for approximate Bayesian inference in latent Gaussian models*, arXiv preprint 1907.11969
- [5] Jóhannesson, Á. V., Hrafnkelsson, B., **Huser, R.**, Bakka, H., and Siegert, S. (2019+), *Approximate Bayesian inference for spatial flood frequency analysis*, arXiv preprint 1907.04763
- [4] Gong\*\*, Y., and **Huser, R.** (2019+), *Asymmetric tail dependence modelling, with application to cryptocurrency market data*, arXiv preprint 1905.05056
- [3] Bopp, G., Shaby, B., and **Huser, R.** (2019+), *A hierarchical max-infinitely divisible process for extreme areal precipitation over watersheds*, arXiv preprint 1805.06084
- [2] **Huser, R.**, Opitz, T., and Thibaud, E. (2018+), *Max-infinitely divisible models and inference for spatial extremes*, arXiv preprint 1801.02946
- [1] Rubio\*\*, R., de Carvalho, M., and **Huser, R.** (2017+), *Similarity-based clustering for stock market extremes*

In preparation (expected submission by the end of December, 2019):

- [4] Yadav\*\*, R., **Huser, R.** and Opitz, T. (2019+), *Flexible sub-asymptotic modeling of threshold exceedances using hierarchical ratio mixture models*
- [3] **Huser, R.** and Stein, M. (2019+), *Inference for max-stable processes based on the Vecchia approximation*
- [2] **Huser, R.** (2019+), *Recent advances in the modeling and inference for spatial extremes*
- [1] Lombardo, L., Opitz, T., Ardizzone, F., Guzzetti, F., and **Huser, R.** (2019+), *Space-time landslide predictive models: bridging the gap between geomorphology and geostatistics*

**Honors and Awards**

- 2019: ENVR Early Investigator Award, Section on Statistics and the Environment (ENVR) of the American Statistical Association (ASA)  
Journal paper [18] above, published in the journal *Stochastic Environmental Research and Risk Assessment* (SERRA), was highlighted among the top 10 most downloaded 2018 papers in Springer's *Environmental Sciences Journals*
- 2018: Award for Best 2016 Paper (*see journal paper [9] above*) published in the *Journal of Agricultural, Biological and Environmental Statistics* (JABES)
  - ⇒ *Work presented in a special invited session at the International Biometric Conference 2018*
- 2016: Elected Member of the International Statistical Institute (ISI)
- 2015: Lambert Award, Swiss Statistical Society (SSS)
  - ⇒ *Prize to recognize the work of young statisticians up to age 35*
  - ⇒ *Work presented in a plenary talk at the Swiss Statistics Meeting 2015*
- 2014: EPFL Doctorate Award, EPFL, Lausanne, CH

⇒ 2 laureates for 405 Ph.D. theses defended university-wide

2010: 1<sup>st</sup> prize: Ph.D. poster competition at the Workshop on Environmetrics, NCAR, Boulder CO, US

2009: 2<sup>nd</sup> prize: M.S. project poster competition, Institute of Mathematics, EPFL, Lausanne, CH

### Research Grants (additional to KAUST baseline and start-up funds)

Principal Investigator      Title:      *Statistical Estimation and Detection of Extreme Hot Spots, with Environmental and Ecological Applications*  
KAUST Competitive Research Grant, CRG 2017  
US \$771,674      2018–2020

### Teaching Experience

#### Instructor:

Probability and Statistics,      KAUST, Fall 2019 (*upcoming*)  
Graduate Seminar series,      KAUST, Fall 2017, Spring 2018  
Statistics of Extremes,      KAUST, Spring 2016, 2017, 2018, 2019  
   KAUST, short course (3 weeks), Fall 2014  
Linear Models,      KAUST, Fall 2015, 2016, 2017, 2018  
Space-Time Modeling of Extreme Events, Invited lecturer, EPFL, 2h-lecture, Fall 2014

#### Teaching Assistant:

Monte Carlo Inference,      EPFL, Fall 2010, 2012  
Mathematics projects,      EPFL, Spring 2012  
Statistics of Extremes,      EPFL, Fall 2009, 2011  
Calculus,      EPFL, Fall 2011  
Time Series,      EPFL, Spring 2010, 2011  
Probability and Statistics,      EPFL, Spring 2011  
Statistics,      EPFL, Spring 2010

### Student/Postdoc supervision

#### Postdocs:

Arnab Hazra, 2018–, KAUST  
Luigi Lombardo, 2016–2018, KAUST, jointly with Prof. Martin Mai (*first position: Assistant Professor at the University of Twente, Netherlands*)  
Daniela Andrea Castro Camilo, 2015–2019, KAUST (*first position to start in August 2019: Lecturer, i.e., equivalent to Assistant Professor, at the University of Glasgow, UK*)

#### Ph.D. Students:

Zhongwei Zhang, 2022 (expected), KAUST  
Matheus Guerrero, 2022 (expected), KAUST  
Yan Gong, 2022 (expected), KAUST  
Daniela Cisneros Arce, 2022 (expected), KAUST  
Rishikesh Yadav, 2021 (expected), KAUST  
Rodrigo Rubio, 2019 (expected), PUC (Chile), jointly with Dr. Miguel de Carvalho  
Sabrina Vettori, 2017, KAUST, jointly with Prof. Marc G. Genton (*first position: startup company “EDAMA Organic Solutions” at KAUST*)

#### B.S. and M.S. students:

Enas Alahmadi, M.S., 2019 (expected), KAUST  
Rustam Bekishev, M.S., 2018, KAUST (*first position: Senior Business Analyst at the Applied Economics Research Center, Kazakhstan*)  
Peng Zhong, M.S., 2018, KAUST (*first position: PhD student at KAUST*)  
Baki Zhuldyzah, M.S., 2018, KAUST (*first position: Risk Assurance Associate at PwC, Kazakhstan*)

Yan Gong, M.S., 2017, KAUST (*first position: PhD student at KAUST*)  
Eugène Kviatkevitch and Salmon Virgile, B.S. semester project, 2012, EPFL  
Antoine Herveleu and François Pagano, B.S. semester project, 2012, EPFL

#### Interns:

Enas Alahmadi (Boston University), 2 month-internship at KAUST

#### **My group members' awards and recognitions** (*while being under my supervision*):

- 2019: Luigi Lombardo (Postdoc): Journal paper [18] above, published in the journal Stochastic Environmental Research and Risk Assessment (SERRA), was highlighted among the top 10 most downloaded 2018 papers in Springer's Environmental Sciences Journals
- 2017: Luigi Lombardo (Postdoc): Appointed Editor of the Natural Hazards Division blog of the European Geoscience Union (EGU) for Nov 2017-Nov 2019.
- Luigi Lombardo (Postdoc): co-author of a paper awarded for the best research within the Italian Council for Agricultural Research and Economics (CREA) for 2017.
- Sabrina Vettori (Ph.D. student): ENAR Distinguished Student Paper Award, International Biometric Society Eastern North American Region – *presented in an invited talk at ENAR 2018, Atlanta.*
- Sabrina Vettori (Ph.D. student): ENVR Student Paper Award, Section on Statistics and the Environment, ASA – *presented in an invited talk at JSM 2017, Baltimore.*

#### **Talks**

##### Special invited talks (*plenary/keynote/special talks at conferences – not including workshops*):

- 2018, International Biometric Conference, Barcelona, ES (*JABES Showcase Session, presentation for JABES Best 2016 Paper Award*)  
Conference on Computational and Statistical Interface to Big Data, KAUST, Thuwal, SA (*Plenary talk*)
- 2015, Swiss Statistics Meeting, Berne, CH (*Plenary talk for Lambert Award 2015*)

##### Invited talks at international conferences/workshops:

- 2019, ISI World Statistics Congress, Kuala Lumpur, MY (*Special Topic Session*)  
JSM, Denver CO, US (*Invited Session*)  
Workshop on Risk Analysis for Extremes in the Earth System, Lawrence Berkeley National Lab, Berkeley CA, US (*2 Invited talks: 3h short course on Spatial Extremes & Research talk*)  
EVA, University of Zagreb, Zagreb, Croatia (*2 Invited talks: Invited Session & Introduction to EVA Competition*)
- 2018, JSM, Vancouver, CA (*Topic Contributed Session*)  
TIES, CIMAT, Guanajuato, MX  
IMS Asia Pacific Rim Meeting Conference, Singapore, SG  
4<sup>th</sup> Conference of the ISNPS, Salerno, IT  
Transition Workshop on Mathematical and Statistical Methods for Climate and the Earth System (CLIM), SAMSI, Rayleigh NC, US (*Special Plenary Lecture*)
- 2017, CMStatistics (ERCIM), University of London, London, UK  
EMS, University of Helsinki, Helsinki, FI  
ISI World Statistics Congress, Marrakech, MA (*Discussant and Invited Session Organizer*)  
EVA, University of Technology, Delft, NL (*2 Invited talks: Invited Session & EVA Competition*)  
CMStatistics (EcoSta), Hong Kong University of Science and Technology, Hong Kong, CN  
Workshop on Risk Quantification and Extreme Values in Applications, EPFL, Lausanne, CH
- 2016, CMStatistics (ERCIM), University of Seville, Seville, ES  
STATMOS Workshop, Pennsylvania State University, State College PA, US  
IMS Asia Pacific Rim Meeting Conference, The Chinese University of Hong Kong, CN  
Workshop on Uncertainty Modeling in the Analysis of Weather, Climate and Hydrological Extremes, BIRS, Banff, CA

- Workshop on Uncertainty and Causality Assessment in Modeling Extreme and Rare Events, NCAR, Boulder CO, US
- Workshop on Computational Challenges of Multivariate Extremes with Applications in the Environment and Geosciences, Edinburgh, UK
- 2015, TIES, UAE University, Al Ain, UAE
- EVA, University of Michigan, Ann Arbor MI, US
- Workshop on New Developments in Econometrics and Time Series, RUB, Bochum, DE
- 2014, CFE (ERCIM), University of Pisa, Pisa, IT
- COMPSTAT, Geneva, CH
- 2013, PEPER workshop, Aussois, FR
- 2012, Zürich Extremes Meeting, Zurich, CH
- Workshop on Composite Likelihood Methods, BIRS, Banff, CA
- CLAPEM, Viña del Mar, CL
- 2011, EVA, Lyon, FR (*Invited talk shared with Prof. Anthony C. Davison*)
- 2010, Transition Workshop on Space-Time Analysis for Environmental Mapping, Epidemiology and Climate Change, SAMSI, Rayleigh NC, US

Invited seminars:

- 2018, North Carolina State University, Raleigh NC, US
- 2016, University of Chicago, Chicago IL, US (*2 Talks*)
- Purdue University, West Lafayette IN, US
- University of Michigan, Ann Arbor MI, US
- Ohio State University, Columbus OH, US
- Colorado School of Mines, Golden CO, US
- Newcastle University, Newcastle, UK
- Lancaster University, Lancaster, UK
- 2015, Pontificia Universidad Católica de Chile, Santiago, CL
- Bristol University, Bristol, UK
- 2014, KAUST, Thuwal, SA
- Laboratoire de Statistique Théorique et Appliquée (LSTA), St-Quentin-en-Yvelines, FR
- Laboratoire des Sciences du Climat et de l'Environnement (LSCE), Paris, FR
- EPFL, Lausanne, CH
- EPFL (course for Ph.D. students in statistics), Lausanne, CH
- 2013 KAUST, Thuwal, SA

Contributed talks

- 2019, Spatial Statistics Conference, Sitges, ES
- 2018, XIV EBEB – Brazilian Meeting on Bayesian Statistics, Rio de Janeiro, BR
- 2016, Workshop on Statistics for High-Dimensional and Complex Data, KAUST, Thuwal, SA
- 2015, Workshop on Computational Space-Time Statistics, KAUST, Thuwal, SA
- JSM, Seattle WA, US
- 2014, Workshop on Statistics of Extremes, KAUST, Thuwal, SA
- JSM, Boston MA, US
- Workshop on High-Dimensional and Multivariate Extremes, Bristol, UK
- 2013, 10<sup>th</sup> Graduate Colloquium in Mathematics, University of Berne, Berne, CH
- 2011, Annual Meeting of the EXTREMES Group, Davos, CH
- 2010, Annual Meeting of the EXTREMES Group, Davos, CH

Posters

- 2018, Workshop in honor of Anthony C. Davison's 60<sup>th</sup> birthday, EPFL, Lausanne, CH
- 2017, Workshop on Modern Statistics and Complex Data Structures, KAUST, Thuwal, SA
- 2016, Workshop on Uncertainty Modeling in the Analysis of Weather, Climate and Hydrological

Extremes, BIRS, Banff, CA (*Invited Poster*)  
2014, KAUST Industry Collaboration Program (KICP) Research Symposium, KAUST, Thuwal, SA  
Workshop on Spatial Statistics for Environmental and Energy Challenges, KAUST, Thuwal, SA  
2013, CRAG-IRGC Symposium on Uncertainty: From Insight to Action, EPFL, Lausanne, CH  
2010, Workshop on Environmetrics, NCAR, Boulder CO, US (*1<sup>st</sup> prize for best poster*)  
IMSC, Edinburgh, UK  
2009, EVA, Fort Collins CO, US

**Editorial Service** (*more details on <https://publons.com>*)

2019– Associate Editor for the journal *Econometrics and Statistics (EcoSta)*  
Associate Editor for the *Journal of Agricultural, Biological and Environmental Statistics (JABES)*  
2017– Associate Editor for the journal *Extremes*

Referee for:

*Annals of Applied Statistics, Biometrika, Computational Statistics and Data Analysis, Electronic Journal of Statistics, Environmetrics, Extremes, Hydrology and Earth System Sciences, IEEE Transactions on Signal Processing, IEEE Transactions on Smart Grid, Journal of the American Statistical Association – Applications and Case Studies, Journal of the American Statistical Association – Theory and Methods, Journal of Computational and Graphical Statistics, Journal of Mountain Science, Journal of Multivariate Analysis, Machine Learning, Mathematical Geosciences, Metron, REVSTAT, Sankhya, Scandinavian Journal of Statistics, Spatial Statistics, Stat, Stochastic Environmental Research and Risk Assessment, TEST, Water Resources Research*

**Service to the Profession** (*additional to Editorial Service; see above*)

Ph.D. committee member:

Wanfang Chen, Ph.D. proposal, KAUST, 2018  
Nadhir Ben Rached, Ph.D. defense, KAUST, 2018  
Daniela Andrea Castro Camilo, Ph.D. defense, PUC, 2015  
Nadhir Ben Rached, Ph.D. proposal, KAUST, 2015

M.S. thesis committee member:

Zhuldyzay Baki, KAUST, 2018  
Soumaya Elkantassi, KAUST, 2017  
Rui Meng, KAUST, 2016

Workshop chair and/or co-organizer:

CFE-CMStatistics conference, London, UK, Dec 2019  
Workshop on Statistics and Data Science, KAUST, Fall 2018  
Workshop on Modern Statistics and Complex Data Structures, KAUST, Fall 2017  
Workshop on Statistics for High-Dimensional and Complex Data, KAUST, Fall 2016 (*Workshop Chair*)  
Workshop on Computational Space-Time Statistics, KAUST, Fall 2015  
Workshop on Statistics of Extremes, KAUST, Fall 2014

Invited Session Organizer:

CMStatistics, University of London, London, UK, 2019 (*upcoming*)  
CMStatistics, University of Pisa, Pisa, Italy, 2018  
4<sup>th</sup> conference of the International Society for Non-Parametric Statistics (ISNPS), Salerno, Italy, 2018  
CMStatistics, University of London, London, UK, 2017  
ISI World Statistics Congress, Marrakech, Morocco, 2017

**Other skills**

Languages: French (mother tongue), English (fluent), German (basic)

Computing: Programming: R, Matlab, C++  
Supercomputing: Unix, Slurm, OpenMP  
Other: LaTeX, MS Office

**Scientific and professional memberships**

International Statistical Institute (ISI), Elected Member  
Bernoulli Society (BS), Regular Member  
The International Environmetrics Society (TIES), Regular Member  
Swiss Statistical Society (SSS), Regular Member  
American Statistical Association (ASA), Regular Member

**References**

Upon request.