

# Cristiano Varin

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NATIONALITY	Italian
RESEARCH INTERESTS	Statistical theory and methods. Statistical modelling. Statistical computation.
EDUCATION	<p><b>PhD in Statistics, University of Padova</b> Mar 2003</p> <ul style="list-style-type: none"><li>Thesis title: <i>Composite Likelihood Inference in Geostatistics</i></li><li>Supervisor: G Masarotto</li></ul> <p><b>Laurea in Demography &amp; Social Statistics, University of Padova</b> July 1999</p> <ul style="list-style-type: none"><li>Awarded <i>with Distinction</i> (110/110 cum laude)</li><li>Supervisor: AC Capelo; G Masarotto and R Smareglia (co-supervisors)</li></ul>
ACADEMIC POSITIONS HELD	<p><b>Professor of Statistics, Ca' Foscari University</b> Jan 2020 – present</p> <ul style="list-style-type: none"><li><i>Department of Environmental Sciences, Informatics and Statistics</i></li></ul> <p><b>Associate Professor of Statistics, Ca' Foscari University</b> Oct 2015 – Dec 2019</p> <ul style="list-style-type: none"><li><i>Department of Environmental Sciences, Informatics and Statistics</i></li></ul> <p><b>Assistant Professor in Statistics, Ca' Foscari University</b> Jan 2011 – Oct 2015</p> <ul style="list-style-type: none"><li><i>Department of Environmental Sciences, Informatics and Statistics</i></li></ul> <p><b>Assistant Professor in Statistics, Ca' Foscari University</b> Feb 2007 – Dec 2010</p> <ul style="list-style-type: none"><li><i>Department of Statistics</i></li></ul> <p><b>Visiting Professor</b> Feb 2007</p> <ul style="list-style-type: none"><li><i>MAP 5, University Paris V Descartes</i> (1 month)</li></ul> <p><b>Assistant Researcher in Statistics</b> Feb 2003 – Jan 2007</p> <ul style="list-style-type: none"><li>Post-doc positions at University of Padova and University of Udine</li></ul> <p><b>PhD Student in Statistics, University of Padova</b> Sep 1999 – Dec 2002</p> <ul style="list-style-type: none"><li><i>Department of Statistical Sciences</i></li><li>Supervisor: G Masarotto</li></ul>
HONOURS AND AWARDS	<p><b>University Teaching Award</b>, Ca' Foscari University 2020</p> <p><b>Read Paper</b>, Royal Statistical Society May 2015</p> <ul style="list-style-type: none"><li>Joint paper with M Cattelan and D Firth read at RSS Ordinary Meeting</li></ul> <p><b>Gumbel Lecture</b>, German Statistical Society Sep 2006</p> <ul style="list-style-type: none"><li>Special plenary named lecture awarded to a young statistician</li></ul>
PROFESSIONAL SERVICE	<p><b>Editorial:</b></p> <ul style="list-style-type: none"><li>Associate Editor of <i>Statistical Methods and Applications</i> 2018 – present</li><li>Associate Editor of <i>Journal of the Royal Statistical Society Series C</i> 2013–16</li><li>Guest Associate Editor of <i>Statistica Sinica</i> 2015</li></ul> <p><b>Conferences/workshops, scientific committees:</b></p> <ul style="list-style-type: none"><li>'12th ERCIM Conference on Computational and Methodological Statistics' University of London, United Kingdom Dec 2019</li><li>'12th Classification and Data Analysis Group (CLADAG) Conference' University of Cassino and Southern Lazio, Italy Sep 2019</li><li>'Second Workshop on Composite Likelihood Methods' Banff International Research Station, Canada (also <b>co-organizer</b>) Apr 2012</li><li>'Workshop on Composite Likelihood Methods' University of Warwick, United Kingdom (also <b>co-organizer</b>) Apr 2008</li></ul>

**PhD assessment committees:**

- PhD in Science and Management of Climate Change at Ca' Foscari University Feb 2016
- PhD in Environmental Sciences at Ca' Foscari University Dec 2013
- PhD in Statistics at Aarhus University Sep 2013
- PhD in Statistics at University of Padova Apr 2013
- PhD in Statistics at University of Padova Apr 2010

**Reviewer:**

- *Journals*: Annals of the Institute of Mathematical Statistics; Annals of Applied Statistics; Behavior Research Methods; Bernoulli; Biometrical Journal; Biometrics; Biometrika; Biostatistics; Canadian Journal of Statistics; Computational Statistics; Computational Statistics and Data Analysis; Communication in Statistics - Simulation and Computation; Econometrics and Statistics; Environmetrics; Foundations and Trends in Econometrics; IEEE Transactions on Signal Processing; International Journal of Biostatistics; Journal of Computational and Graphical Statistics; Journal of Multivariate Analysis; Journal of Statistical Planning and Inference; Journal of the American Statistical Association; Journal of the Royal Statistical Society Series A; Journal of the Royal Statistical Society Series B; Journal of the Royal Statistical Society Series C; Journal of Statistical Software; Metron; Psycometrika; SAGE Open Medicine; Soil Research; Stat; Statistical Methods and Applications; Statistical Methods in Medical Research; Statistical Modelling; Statistical Papers; Statistical Science; Statistica Sinica; Statistics and Computing; Statistics in Medicine; Transportation Research Part B; Transportmetrika
- Books*: Advances in Econometrics; Copulae in Mathematical and Quantitative Finance
- Proceedings*: CLADAG Conference; Italian Statistical Society Conference; S.Co. Conference,

**Research Projects reviewer:**

- Athens University of Economics and Business; Italian Ministry of Education, University and Research; Natural Sciences and Engineering Research Council of Canada; Norwegian Council of Research; Swiss National Science Foundation; The Royal Society of New Zealand.

**VISITING PERIODS**

Those listed below are the visiting periods of at least one week: Norwegian Computing Center; Universitat Pompeu Fabra Barcelona, Department Economics and Business; University Paris V Descartes, MAP5; University of Toronto, Department Statistics; University of Warwick, Department of Statistics; University Technology Munich, Center for Mathematics.

**TEACHING****Doctoral level****At Ca' Foscari University:**

- *Statistical Methods for Climate Change Studies* (PhD Climate Change) 2017–18
- *Statistical Models for Management Studies* (PhD Management) 2016–17
- *Preparatory Probability* (PhD Management) 2014–16
- *Statistics for Management Studies* (PhD Management) 2014–16
- *Applied Statistics and Geostatistics* (PhD Environmental Sciences) 2011–13  
(2011–12 with C Gaetan)
- *Time Series Analysis* (PhD Economics) 2009–10

**At Sapienza University of Rome:**

- *Likelihood: Extensions and Modifications* (short course, PhD Statistics) Nov 2013

**At University of Milan-Bicocca:**

- *Likelihood: Extensions and Modifications* (short course, PhD Statistics) Apr 2013

**Bachelor & Master level****At Ca' Foscari University:**

- *Statistical Inference and Learning* (Master Computer Science) 2015–21
- *Data Analysis* (Bachelor Computer Science) 2018–21
- *Statistics 2* (Bachelor Management) 2016–17
- *Climate Modelling* (Master Environmental Sciences) 2015–16
- *Applied Statistics* (Bachelor Computer Science) 2014–15
- *Data Analysis for Business Decisions* (Master Management) 2012–15
- *Statistics 1* (Bachelor Management) 2010–12
- *Statistical Quality Control* (Bachelor Statistics) 2008–10
- *Statistical Models 2* (Bachelor Statistics) 2007–08
- *Statistics 1* (Bachelor Management) 2007–08
- *Statistical Laboratory with R* (Bachelors Economics and Management) 2006–07

**At University of Udine:**

- *Statistics 2* (Bachelor Biotechnology) 2004–06
- *Applied Statistics* (Master Veterinary) 2003–04

**Teaching Assistance****At Ca' Foscari University:**

- *Statistics 1* (Bachelor Management, 2010–13); *Methodological Statistics* (Bachelor Statistics, 2010–11); *Statistics 2* (Bachelor Management, 2010–11); *Statistical Models 1* (Bachelor Statistics, 2008–09); *Statistical Models 2* (Bachelor Statistics, 2008–09); *Statistics 1* (Bachelor Statistics, 2006–07); *Statistics 2* (Bachelor Statistics, 2006–07); *Computational Statistics B* (Bachelor Statistics, 2006–07)

**At University of Udine:**

- *Advanced Financial Time Series* (Bachelor Finance, 2004–06); *Introductory Statistics* (Bachelor Statistics, 2001–03); *Probability* (Bachelor Statistics, 1999–2001)

**At University of Padova:**

- *Applied Statistics* (Bachelor Computer Science, 2003–06); *Introductory Statistics* (Bachelor Statistics, 2001–03); *Probability* (Bachelor Statistics, 1999–2001)

## ACADEMIC

## ADMINISTRATION

**At Ca' Foscari University:**

- Faculty Board PhD School in Polar Sciences 2021 – present
  - Deputy Head Ca' Foscari International College 2020 – present
  - Faculty Board Master in Data Analytics for Business and Society 2020 – present
  - Member University Quality Assurance Unit 2016 – present
  - Faculty Board Ca' Foscari International College 2015 – present
  - Faculty Board PhD School in Science and Management of Climate Change 2013–21
  - Delegate for DAIS Communication 2012–17
  - Member DAIS Research Committee 2011–17
  - Member DAIS Research Funds Committee 2011–16
  - Faculty Board Bachelor in Statistics 2011–14
  - Member Research Funds Committee, Department of Statistics 2010
- (DAIS: Department of Environmental Sciences, Informatics and Statistics)

## GRANTS

## AND

## CONTRACTS

## AWARDED

- FFABR 2017 Italian Ministry of Education, University and Research 2018–19  
Grant amount: 5K euros
- Marie Curie Fellowship, European Commission 2016–18  
'SCouT - Sparse Composite Likelihood Inference in Count Time Series'  
Grant amount: 168K euros. Fellow: X Pedeli. Role: Supervisor
- IRIDE DAIS Ca' Foscari University 2013–15  
'Development of Flexible Methods for Nonlinear Modelling of Dependent Data'  
Grant amount: 4.5K euros
- Banff International Research Station Conference organization 2012  
'Workshop on Composite Likelihood Methods'  
Co-Investigator with H Joe, D Firth, N Reid, P Song  
Grant amount: unknown, the grant covered accommodation, meals and organization costs for 40 participants. Role: Co-organizer
- PRIN 2008 Italian Ministry of Education, University and Research 2009–12  
'Approximate Likelihood Methods for Complex Dependence Structures'  
Principal Investigator P Vidoni
- Cariparo project Cariparo Foundation 2008–11  
'ML2: Modified Likelihood Methods for Evaluating the Effects of the Mobility Lists Program in the Veneto Region'. Principal Investigator E Battistin
- PRIN 2006 Italian Ministry of Education, University and Research 2007–09  
'New Likelihood Methods for Complex Models'  
Principal Investigator P Vidoni
- PRIN 2004 Italian Ministry of Education, University and Research 2005–07  
'Trattamento statistico della complessità e dell'incertezza negli studi ambientali'  
Principal Investigator D Cocchi
- PRIN 2002 Italian Ministry of Education, University and Research 2003-05  
'Statistica nel supporto alla decisione ambientale: identificazione, monitoraggio e valutazione di intervento'. Principal Investigator D Cocchi

	<ul style="list-style-type: none"> <li>○ Norwegian Council of Research Grant 3-months scholarship 'A Comparison of Estimation Procedures Useful in Spatial Statistics' Supervisor NL Hjort</li> <li>○ PRIN 2000 Italian Ministry of Education, University and Research 'Statistica nella valutazione del rischio ambientale' Principal Investigator G Lovison</li> <li>○ PhD Scholarship University of Padova 3-years scholarship Funded by the Italian Ministry of Education, University and Research</li> </ul>	<p>2002</p> <p>2001–03</p> <p>2000–02</p>
SUPERVISION	<ul style="list-style-type: none"> <li>○ Alessandro Gagliardi PhD thesis, University of Padova 'Statistical Methods for Paleoclimate Time Series'</li> <li>○ Xanthi Pedeli Marie Curie Fellow, Ca' Foscari University 'Sparse Composite Likelihood Inference in Count Time Series'</li> <li>○ Moreno Bevilacqua Post-doc, Ca' Foscari University 'Estimating Equations and Composite Likelihoods for Dependent Data' jointly supervised with N Sartori</li> <li>○ Manuela Cattelan PhD thesis, University of Padova 'Correlation Models for Paired Comparison Data' jointly supervised with A Salvan</li> </ul>	<p>2018–20</p> <p>2016–18</p> <p>2008–11</p> <p>2007–09</p>
MEMBERSHIPS	<ul style="list-style-type: none"> <li>○ American Statistical Association</li> <li>○ Institute of Mathematical Statistics</li> <li>○ Royal Statistical Society</li> <li>○ Italian Statistical Society</li> <li>○ Venice International Center for Climate Change Studies</li> <li>○ Center for Estuarine and Coastal Marine Sciences, Ca' Foscari University</li> <li>○ Center for Research in Statistical Methodology, University of Warwick</li> </ul>	<p>2010 – present</p> <p>2010 – present</p> <p>2008 – present</p> <p>2004 – present</p> <p>2014–16</p> <p>2013–16</p> <p>2008–13</p>
INVITED CONFERENCE TALKS	<ul style="list-style-type: none"> <li>○ 'Scalable empirical Bayes for the analysis of paired comparisons data' <i>German Statistical Week</i>, Kiel (online)</li> <li>○ 'Rating with the pairwise empirical Bayes method' <i>Advances in Statistical Modelling and Inference</i>, Udine</li> <li>○ 'Rating with the pairwise empirical Bayes method' <i>12th International Conference CMStatistics</i>, London</li> <li>○ 'Designing efficient composite likelihoods' <i>11th International Conference CMStatistics</i>, Pisa</li> <li>○ 'Composite likelihoods and categorical data analysis' <i>Workshop Challenges for Categorical Data Analysis</i>, Aachen</li> <li>○ 'Gaussian copula regression' <i>10th ERCIM International Conference</i>, London</li> <li>○ 'Designing efficient composite likelihoods' <i>Scalable Statistical Inference</i>, Cambridge</li> <li>○ 'The ranking lasso' <i>i-like Workshop</i>, Warwick</li> <li>○ 'Composite likelihoods: An overview with emphasis on biostatistics' <i>GDR Statistique &amp; Santé</i>, Rennes</li> <li>○ 'Hybrid pairwise likelihood analysis of Thurstone-Mosteller models' <i>8th Scientific Meeting CLADAG</i>, Pavia</li> <li>○ 'An overview of composite likelihood methods' <i>Royal Statistical Society Conference 2010</i>, Brighton</li> <li>○ 'An overview of composite likelihood methods' <i>73rd Annual Meeting Institute of Mathematical Statistics</i>, Gothenburg</li> <li>○ 'An overview of composite likelihood methods' <i>Workshop on Spatial Extremes and Applications</i>, Lausanne</li> <li>○ 'On composite marginal likelihood inference for hierarchical models' <b>Gumbel Lecture at Statistical Week 2006</b>, Dresden</li> </ul>	<p>Sep 2021</p> <p>Jan 2020</p> <p>Dec 2019</p> <p>Dec 2018</p> <p>Oct 2018</p> <p>Dec 2017</p> <p>July 2017</p> <p>May 2013</p> <p>Sep 2012</p> <p>Sep 2011</p> <p>Sep 2010</p> <p>Aug 2010</p> <p>Jul 2009</p> <p>Sep 2006</p>
INVITED CONFERENCE DISCUSSIONS	<ul style="list-style-type: none"> <li>○ N Cressie's 'Comparing and selecting spatial predictors using local criteria' <i>Workshop on Recent Advances in Statistical Inference</i>, Padova</li> <li>○ Session 'Regression models for longitudinal multivariate and discrete data' <i>SIS 2010 Conference</i>, Padova</li> <li>○ Session 'Likelihood-based inference for complex statistical models'</li> </ul>	<p>Mar 2013</p> <p>July 2010</p> <p>Sep 2007</p>

INVITED RESEARCH SEMINARS	○ ‘Approximate empirical Bayes for the analysis of paired comparisons data’	Oct 2021
	Department of Statistics, University Sapienza Roma	
	○ ‘The role of statistical modelling in climate change studies’	June 2016
	Venice Center for Climate Studies, Ca’ Foscari University	
	○ ‘Composite likelihood estimation’	Apr 2016
	Institute of Statistics and Mathematics, Vienna University of Economics and Business	
	○ ‘Gaussian copula regression’	Apr 2015
	Department of Statistics, University of Innsbruck	
	○ ‘The ranking lasso’	May 2013
	Institute of Statistics and Mathematics, Vienna University of Economics and Business	
	○ ‘Gaussian copula marginal regression’	Oct 2012
	CenStat, Hasselt University	
	○ ‘Gaussian dependence models for marginal regression’	May 2011
	Department of Statistics, University of Toronto	
	○ ‘An overview of composite likelihood methods’	Jun 2011
	Department of Mathematical Sciences, University of Copenhagen	
	○ ‘Gaussian dependence models for non-Gaussian regression’	Nov 2010
	Department of Economics and Business, University Pompeu Fabra	
	○ ‘Composite likelihood methods’	Apr 2009
	Department of Mathematics, University of Oslo	
○ ‘Marginal regression models with stationary time series errors’	Mar 2009	
Department of Statistics, University of Warwick		
○ ‘Gaussian autoregressive moving average copula models’	Jul 2008	
MAP5, University Paris V Descartes		
○ ‘Composite likelihood methods in Markov chain models’	Feb 2007	
MAP5, University Paris V Descartes,		
○ ‘Composite likelihood methods in Markov chain models’	Jun 2006	
Department of Statistics, Ludwig-Maximilians University Munich		
○ ‘Composite likelihoods methods for temporal and spatial data’	May 2006	
Department of Economics and Finance, University Rome Tor Vergata		
○ ‘Composite marginal likelihood inference’	Jan 2006	
Institute of Mathematics, EPFL Lausanne		
○ ‘Composite marginal likelihood inference’	Jan 2006	
Department of Statistics, Ca’ Foscari University		
○ ‘Composite marginal likelihood inference’	Sep 2005	
Department of Statistics, University of Warwick,		
○ ‘Marginal composite likelihood inference in GLMMs’	Dec 2004	
Department of Economics, Finance, and Statistics, University of Perugia		
○ ‘Pairwise likelihood inference in spatial GLMMs’	Feb 2003	
Department of Statistics, University of Udine		
CONTRIBUTED CONFERENCE TALKS	○ ‘Marginal beta regression for time series analysis’	Jul 2012
	27th IWSM, Prague	
	○ ‘Overview of composite likelihood methods’	Apr 2012
	2nd Workshop Composite Likelihood Methods, Banff	
	○ ‘Gaussian copula regression using R’	Aug 2011
	UseR! 2011 Conference, Warwick,	
	○ ‘The ranking lasso’	May 2011
	Workshop PRIN, Verona	
	○ ‘Hierarchical modelling of adult age-at-death in Paleodemography’	Sep 2009
	RSS 2009 Conference, Edinburgh	
	○ ‘Composite likelihood analysis of mixed autoregressive probit models’	Sep 2008
Workshop Composite Likelihood Methods, Warwick		
○ ‘Marginal regression models with correlated normal errors’	May 2009	
Workshop PRIN, Cagliari		
○ ‘Gaussian autoregressive moving average copula models’	Jun 2008	
Workshop PRIN, Udine		
○ ‘Pairwise likelihood inference for longitudinal ordinal outcomes’	Jul 2007	

- 27th IWSM, Barcelona
- ‘On composite marginal likelihoods’ May 2007  
Workshop PRIN, Venice
- ‘Pairwise likelihood analysis of migraine severity diaries’ Mar 2007  
Statistics under one Umbrella, Bielefeld
- ‘Statistical analysis of ordinal categorical time series’ Sep 2006  
Statistical Latent Variables Models in Health Sciences, Perugia
- ‘Pairwise likelihood inference for time series models’ Apri 2006  
Italian Meeting on Time Series Analysis, Villa Mondragone
- ‘Composite likelihood methods in Markov chain models’ May 2006  
Workshop PRIN, Venice
- ‘Composite likelihood inference for ordinal categorical time series’ Oct 2005  
World Conference CSDA, Limassol
- ‘Composite marginal likelihood inference’ Sep 2005  
EMS summer school, Warwick
- ‘Pairwise likelihood inference for state space models’ Jul 2005  
European Meeting of Statisticians, Oslo
- ‘Pairwise likelihood inference for non-linear state space models’ Sep 2004  
Workshop on Time Series Analysis and Signal Extraction, Udine
- ‘A pairwise likelihood approach to GLMMs’ Jul 2004  
19th IWSM, Firenze
- ‘Reconstruction of Marghera soil using compositional data’ Feb 2004  
Workshop GRASPA, Bergamo
- ‘Inference and model selection using composite likelihoods’ Nov 2003  
Workshop PRIN, Padova
- ‘Pairwise likelihood inference in spatial GLMMs’ Jun 2003  
SPRUCCE Conference, Lund
- ‘Pairwise likelihood inference for spatial GLMMs’ Jan 2003  
Workshop in memory of AC Capelo, Padova
- ‘A pairwise framework for geostatistics’ Jun 2002  
TIES Conference, Genova
- ‘Generalized linear mixed models for remote sensing applications’ Dec 2001  
Workshop GRASPA, Padova

#### REFERENCES

- Professor **David Firth**  
Department of Statistics, University of Warwick  
Zeeman Building, Coventry, CV4 7AL, UK  
[d.firth@warwick.ac.uk](mailto:d.firth@warwick.ac.uk)
- Professor **Guido Masarotto**  
Department of Statistical Sciences, University of Padova  
Via Cesare Battisti, 241/243, 35121 Padova, Italy  
[guido.masarotto@unipd.it](mailto:guido.masarotto@unipd.it)

# Cristiano Varin: Publications

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ONLINE  
BIBLIOGRAPHY

Google Scholar:  
<https://scholar.google.com/citations?user=rgcdVjIAAAAJ&hl=en&oi=ao>

PAPERS  
IN  
PEER-REVIEWED  
JOURNALS

The two papers highlighted in the list below as **Highly Cited Paper** belong to the top 1% of the most cited papers in the category 'Mathematics' per year of the last decade according to the Clarivate Analytics (ex Thompson Reuters) Web of Science. The paper highlighted as **Read Paper** underwent more extensive peer-review than normal, and was selected for open, published discussion at an *Ordinary Meeting* of the Royal Statistical Society.

- Berto M, Cappelletti D, Barbaro E, Varin C, Gallet J-C, Markowicz K, Rozwadowska A, Mazzola M, Crocchianti S, Poto L, Laj P, Barbante C, Spolaor A (2021). Variability in black carbon mass concentration in surface snow at Svalbard. *Atmospheric Chemistry and Physics* **21**, 12479-12493.
- Spolaor A, Varin C, Pedeli X, Christille JM, Kirchgeorg T, Giardi F, Cappelletti D, Turetta C, Cairns WRL, Gambaro A, Bernagozzi A, Gallet JC, Bjorkman MP, Barbaro E (2021). Source, timing and dynamics of ionic species mobility in the Svalbard annual snowpack. *Science of The Total Environment* **751**, 141640.
- Varin C, Xanthi P (2020). Pairwise likelihood estimation of latent autoregressive count models. *Statistical Methods in Medical Research* **29**, 3278–3293.
- Zambello R, Crimì F, Lico A, Barilà G, Branca A, Guolo A, Varin C, Vezzaro R, Checuz L, Scapin V, Berno T, Pizzi M, Ponzoni A, De Biasi E, Vio S, Semenzato G, Zucchetta P, Lacognata C (2019). Whole-body low-dose CT recognizes two distinct patterns of lytic lesions in multiple myeloma patients with different disease metabolism at PET/MRI. *Annals of Hematology* **98**, 679–689.
- Cattelan M, Varin C (2018). Marginal logistic regression for spatially clustered binary data. *Journal of the Royal Statistical Society, Series C* **67**, 939–959.
- Battistel D, Kehrwald NM, Zennaro P, Pellegrino G, Barbaro E, Zangrando R, Pedeli X, Varin C, Spolaor A, Vallelonga PT, Gambaro A, Barbante C (2018). High-latitude Southern Hemisphere fire history during the mid to late Holocene (6000–750 BP). *Climate of the Past* **14**, 871–886.
- Spolaor A, Angot H, Roman M, Dommergue A, Scarchilli C, Vardè M, Del Guasta M, Pedeli X, Varin C, Sprovieri F, Magand O, Legrand M, Barbante C, Cairns WRL (2018). Feedback mechanisms between snow and atmospheric mercury: Results and observations from field campaigns on the Antarctic plateau. *Chemosphere* **19**, 306–317.
- Lacognata C, Crimì F, Guolo A, Varin C, De March E, Vio S, Ponzoni A, Barila G, Lico A, Branca A, De Biasi E, Gherlinzoni F, Scapin V, Bissoli E, Berno T, Zambello R (2017). Diffusion-weighted whole-body MRI for evaluation of early response in multiple myeloma. *Clinical Radiology* **72**, 850–857.
- Kosmidis I, Guolo A and Varin C (2017). Improving the accuracy of likelihood-based inference in meta-analysis and meta-regression. *Biometrika* **104**, 489–496.
- Masarotto G and Varin C (2017). Gaussian copula regression in R. *Journal of Statistical Software* **77**, 1–26.
- **Highly Cited Paper**  
Guolo A and Varin C (2017). Random-effects meta-analysis: The number of studies matters. *Statistical Methods in Medical Research* **26**, 1500–1518.
- Spolaor A, Opel T, McConnell JR, Maselli OJ, Spreen G, Varin C, Kirchgeorg T, Fritzsche D and Vallelonga P (2016). Halogen-based reconstruction of Russian Arctic sea ice extent from Akademii Nauk ice core (Severnaya Zemlya). *The Cryosphere* **10**, 245–256.
- **RSS Read Paper**  
Varin C, Cattelan M and Firth D (2016). Statistical modelling of citation exchange between statistics journals (with discussion). *Journal of the Royal Statistical Society, Series A*, **179**, 1–63.

- Valotto G and Varin C (2016). Characterization of hourly NO<sub>x</sub> atmospheric concentrations near the Venice International Airport with additive semi-parametric statistical models. *Atmospheric Research* **167**, 216–223.
- Falchi A, Varin C, Toscano G and Zendri E (2015). Statistical analysis of the physical properties and durability of water-repellent mortars made with limestone cement, natural hydraulic lime and pozzolana-lime. *Construction & Building Materials* **78**, 260–270.
- Guolo A and Varin C (2014). Beta regression for time series analysis of bounded data, with application to Canada Google Flu Trends. *Annals of Applied Statistics* **8** (1), 74–88.
- Cravero F, Varin C and Malavasi S (2014). Moon-related reproductive patterns in transitional habitats: Insights from a Mediterranean killifish inhabiting North Adriatic salt-marshes. *Estuarine, Coastal and Shelf Science* **139** (20), 60–66.
- Cattelan M and Varin C (2013). Hybrid pairwise likelihood analysis of animal behavior experiments. *Biometrics* **69** (4), 1002–1011.
- Spolaor A, Gabrieli J, Martma T, Kohler J, Bjørkman M, Isaksson E, Varin C, Vallelonga P, Plane JMC and Barbante C (2013). Sea ice dynamics influence halogen deposition to Svalbard. *The Cryosphere* **7**, 1645–1658.
- Spolaor A, Vallelonga P, Plane JMC, Kehrwald N, Gabrieli J, Varin C, Turetta C, Cozzi G, Boutron C and Barbante C (2013). Halogen species record Antarctic sea ice extent over glacial-interglacial periods. *Atmospheric Chemistry and Physics* **13**, 6623–6635.
- Spolaor A, Vallelonga P, Cozzi G, Gabrieli J, Varin C, Kehrwald N, Zennaro P, Boutron C and Barbante C (2013). Iron speciation in aerosol dust influences iron bioavailability over glacial-interglacial timescales. *Geophysical Research Letters* **40**, 1618–1623.
- Cattelan M, Varin C and Firth D (2013). Dynamic Bradley-Terry modelling of sport tournaments. *Journal of the Royal Statistical Society, Series C* **62** (1), 135–150.
- Masarotto G and Varin C (2012). The ranking lasso and its application to sport tournaments. *Annals of Applied Statistics* **4**, 1949–1970.
- Masarotto G and Varin C (2012). Gaussian copula marginal regression. *Electronic Journal of Statistics* **6** (4), 1517–1549.
- Guolo A and Varin C (2012). The R package metaLik for likelihood inference in meta-analysis. *Journal of Statistical Software* **50** (7), 1–14.
- **Highly Cited Paper**  
Varin C., Reid N. and Firth D. (2011). An overview of composite likelihood methods. *Statistica Sinica* **21** (1), 5–42.
- Lupi P, Manenti FM, Scialà A and Varin C (2011). On the assessment of regulators' efficiency. An application to european telecommunications. *Info* **13** (1), 61–73.
- Varin C and Czado C (2010). A mixed autoregressive probit model for ordinal longitudinal data. *Biostatistics* **11** (1), 127–138.
- Varin C and Vidoni P (2009). Pairwise likelihood inference for general state space models. *Econometric Reviews* **28** (1-3), 170–185.
- Varin C. (2008). On composite marginal likelihoods. *Advances in Statistical Analysis* **92** (1), 1–28.
- Hjort NL and Varin C (2008). ML, PL and QL in Markov chain models. *Scandinavian Journal of Statistics* **35** (1), 64–82.
- Varin C and Vidoni P (2006). Pairwise likelihood inference for ordinal categorical time series. *Computational Statistics and Data Analysis* **51** (4), 2365–2373.
- Varin C and Vidoni P (2005). A note on composite likelihood inference and model selection. *Biometrika* **92** (3), 519–528.
- Bellio R and Varin C (2005). A pairwise likelihood approach to generalized linear models with crossed random effects. *Statistical Modelling* **5** (3), 217–227.
- Varin C, Høst G and Skare Ø (2005). Pairwise likelihood inference in spatial generalized linear mixed models. *Computational Statistics and Data Analysis* **49** (4), 1173–1191.



BOOK  
CHAPTERS

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