

Cristiano Varin



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NATIONALITY	Italian	
RESEARCH INTERESTS	Statistical methods and applications	
EDUCATION	PhD in Statistics, University of Padova Mar 2003 <ul style="list-style-type: none">Thesis title: <i>Composite Likelihood Inference in Geostatistics</i> Laurea in Demography & Social Statistics, University of Padova July 1999 <ul style="list-style-type: none">Awarded with <i>Distinction</i> (110/110 cum laude)	
ACADEMIC POSITIONS HELD	Associate Professor of Statistics, Ca' Foscari University Oct 2015–present <ul style="list-style-type: none"><i>Department of Environmental Sciences, Informatics and Statistics</i> Assistant Professor in Statistics, Ca' Foscari University Jan 2011–Oct 2015 <ul style="list-style-type: none"><i>Department of Environmental Sciences, Informatics and Statistics</i> Assistant Professor in Statistics, Ca' Foscari University Feb 2007–Dec 2010 <ul style="list-style-type: none"><i>Department of Statistics</i> Visiting Professor Feb 2007 <ul style="list-style-type: none"><i>MAP 5, University Paris V Descartes</i> (1 month) Assistant Researcher in Statistics Feb 2003–Jan 2007 <ul style="list-style-type: none">Several post-doc positions at universities of Padova and Udine PhD Student in Statistics, University of Padova Sep 1999–Dec 2002 <ul style="list-style-type: none"><i>Department of Statistical Sciences</i>Supervisor: G MasarottoFunded by Ministry of Education, University and Research	
HONOURS AND AWARDS	Read Paper , Royal Statistical Society May 2015 <ul style="list-style-type: none">Joint paper with M Cattelan and D Firth read at RSS Ordinary Meeting National Scientific Habilitation Full Professor in Statistics Nov 2014 Gumbel Lecture , German Statistical Society Sep 2006 <ul style="list-style-type: none">Special plenary named lecture awarded to a young statistician	
PROFESSIONAL SERVICE	Editorial: <ul style="list-style-type: none">Associate Editor of <i>Journal of the Royal Statistical Society Series C</i> 2013–16Guest Associate Editor of <i>Statistica Sinica</i> 2015 Conferences/workshops, scientific committees: <ul style="list-style-type: none">'Second Workshop on Composite Likelihood Methods' Banff International Research Station, Canada (also co-organizer) Apr 2012'Workshop on Composite Likelihood Methods' University of Warwick, United Kingdom Apr 2008 PhD Assessment Committees: <ul style="list-style-type: none">PhD in Science and Management of Climate Change at Ca' Foscari University Feb 2016PhD in Environmental Sciences at Ca' Foscari University Dec 2013PhD in Statistics at Aarhus University Sep 2013PhD in Statistics at University of Padova Apr 2013PhD 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; Environmentrics; Foundations and Trends in Econometrics; 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; Transportmetrika
- Books*: Advances in Econometrics; Copulae in Mathematical and Quantitative Finance
- Proceedings*: 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:

- University of Toronto, Department Statistics May 2011
Visiting N Reid
- Universitat Pompeu Fabra Barcelona, Department Economics and Business Nov 2010
Visiting O Papaspiliopoulos
- University of Warwick, Department of Statistics Mar 2009
Visiting D Firth
- University Paris V Descartes, MAP5 Jul 2008
Visiting A Chambaz
- University of Warwick, Department of Statistics Apr 2007
Visiting D Firth
- University Paris V Descartes, MAP5 Feb 2007
Visiting A Chambaz
- University Technology Munich, Center for Mathematics Jun 2006
Visiting C Czado
- University of Warwick, Department of Statistics Sep 2005
Visiting D Firth
- Norwegian Computing Center Aug–Oct 2002
Visiting G Høst
- Norwegian Computing Center Mar 2002
Visiting G Høst
- Norwegian Computing Center Feb–Nov 2001
Visiting G Høst

TEACHING

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

- *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:

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

At the University of Udine:

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

Teaching Assistance

At Ca' Foscari University:

- *Statistics I* (Bachelor Management, 2010–13); *Methodological Statistics* (Bachelor Statistics, 2010–11); *Statistics II* (Bachelor Management, 2010–11); *Statistical Models I* (Bachelor Statistics, 2008–09); *Statistical Models II* (Bachelor Statistics, 2008–09); *Statistics I* (Bachelor Statistics, 2006–07); *Statistics II* (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); *Basic Statistics* (Bachelor Statistics, 2001–03); *Probability* (Bachelor Statistics, 1999–2001)

High-School Seminar Cycles

- 'Does your mp3 play songs at random?' (Liceo Scientifico L da Vinci Treviso, 2011–12); 'Introduction to probability' (Liceo Scientifico L da Vinci Treviso, 2011–12); 'Brief introduction to statistical inference' (Istituto A Farina Vicenza, 2010–11)

ACADEMIC

ADMINISTRATION

At Ca' Foscari University:

- Member University Quality Assurance Unit 2016–present
 - Faculty Board Ca' Foscari International College 2015–present
 - Member Committee Relationships with the National Council of Research 2015–present
 - Faculty Board PhD School in Science and Management of Climate Change 2013–present
 - Delegate for DAIS Communication 2012–present
 - Member DAIS Research Committee 2011–present
 - 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

- **Marie Curie Fellowship** dr. Xanthi Pedeli, European Commission 2016–18
'SCouT - Sparse Composite Likelihood Inference in Count Time Series'
Grant amount: 168K euros. Role: Supervisor
- **IRIDE** Individual Research Grant, 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: ca 40K canadian dollars. Role: Co-organizer
(the grant covered accomodation, meals and organization costs for 40 participants)

	○ PRIN 2008 Italian Ministry of Education, University and Research 'Approximate Likelihood Methods for Complex Dependence Structures' Principal Investigator P Vidoni	2009–12
	○ Cariparo project Cariparo Foundation 'ML2: Modified Likelihood Methods for Evaluating the Effects of the Mobility Lists Program in the Veneto Region'. Principal Investigator E Battistin	2008–11
	○ PRIN 2006 Italian Ministry of Education, University and Research 'New Likelihood Methods for Complex Models' Principal Investigator P Vidoni	2007–09
	○ PRIN 2004 Italian Ministry of Education, University and Research 'Trattamento statistico della complessità e dell'incertezza negli studi ambientali' Principal Investigator D Cocchi	2005–07
	○ PRIN 2002 Italian Ministry of Education, University and Research 'Statistica nel supporto alla decisione ambientale: identificazione, monitoraggio e valutazione di intervento'. Principal Investigator D Cocchi	2003-05
	○ Norwegian Council of Research Grant 3-months scholarship 'A Comparison of Estimation Procedures Useful in Spatial Statistics' Supervisor NL Hjort	2002
	○ PRIN 2000 Italian Ministry of Education, University and Research 'Statistica nella valutazione del rischio ambientale' Principal Investigator G Lovison	2001–03
	○ PhD Scholarship University of Padova 3-years scholarship Funded by the Italian Ministry of Education, University and Research	2000–02
GRADUATE STUDENTS SUPERVISION	○ Xanthi Pedeli Marie Curie Fellow, Ca' Foscari University 'Sparse composite likelihood inference in count time series'	2016–18
	○ Moreno Bevilacqua Post-doc, Ca' Foscari University 'Estimating equations and composite likelihoods for dependent data' jointly supervised with N Sartori	2008–11
	○ Manuela Cattelan PhD thesis, University of Padova 'Correlation models for paired comparison data' jointly supervised with A Salvan	2006–09
MEMBERSHIPS	○ American Statistical Association	2010–present
	○ Institute of Mathematical Statistics	2010–present
	○ Royal Statistical Society	2008–present
	○ Italian Statistical Society	2004–present
	○ Venice International Center for Climate Change Studies	2014–16
	○ Center for Estuarine and Coastal Marine Sciences, Ca' Foscari University	2013–16
	○ Center for Research in Statistical Methodology, University of Warwick	2008–13
INVITED CONFERENCE TALKS	○ 'Designing efficient composite likelihoods' <i>Scalable Statistical Inference</i> , Cambridge	July 2017
	○ 'The ranking lasso' <i>i-like Workshop</i> , Warwick	May 2013
	○ 'Composite likelihoods: An overview with emphasis on biostatistics' <i>GDR Statistique & Santé</i> , Rennes	Sep 2012
	○ 'Hybrid pairwise likelihood analysis of Thurstone-Mosteller models' <i>8th Scientific Meeting CLADAG</i> , Pavia	Sep 2011
	○ 'An overview of composite likelihood methods' <i>Royal Statistical Society Conference 2010</i> , Brighton	Sep 2010
	○ 'An overview of composite likelihood methods' <i>73rd Annual Meeting Institute of Mathematical Statistics</i> , Gothenburg	Aug 2010
	○ 'An overview of composite likelihood methods' <i>Workshop on Spatial Extremes and Applications</i> , Lausanne	Jul 2009
	○ 'On composite marginal likelihood inference for hierarchical models' <i>Gumbel Lecture at Annual Meeting of the German Statistical Society</i> , Dresden	Sep 2006
INVITED CONFERENCE DISCUSSIONS	○ N Cressie's 'Comparing and selecting spatial predictors using local criteria' <i>Workshop on Recent Advances in Statistical Inference</i> , Padova	Mar 2013
	○ Session 'Regression models for longitudinal multivariate and discrete data' <i>SIS 2010 Conference</i> , Padova	July 2010

	<ul style="list-style-type: none"> ○ Session ‘Likelihood-based inference for complex statistical models’ S.Co. 2007 Conference, Venice 	Sep 2007
INVITED RESEARCH SEMINARS	<ul style="list-style-type: none"> ○ ‘The role of statistical modelling in climate change studies’ Venice Center for Climate Studies, Ca’ Foscari University 	June 2016
	<ul style="list-style-type: none"> ○ ‘Composite likelihood estimation’ Institute of Statistics and Mathematics, Vienna University of Economics and Business 	Apr 2016
	<ul style="list-style-type: none"> ○ ‘Gaussian copula regression’ Department of Statistics, University of Innsbruck 	Apr 2015
	<ul style="list-style-type: none"> ○ ‘The ranking lasso’ Institute of Statistics and Mathematics, Vienna University of Economics and Business 	May 2013
	<ul style="list-style-type: none"> ○ ‘Gaussian copula marginal regression’ CenStat, Hasselt University 	Oct 2012
	<ul style="list-style-type: none"> ○ ‘Gaussian dependence models for marginal regression’ Department of Statistics, University of Toronto 	May 2011
	<ul style="list-style-type: none"> ○ ‘An overview of composite likelihood methods’ Department of Mathematical Sciences, University of Copenhagen 	Jun 2011
	<ul style="list-style-type: none"> ○ ‘Gaussian dependence models for non-Gaussian regression’ Department of Economics and Business, University Pompeu Fabra 	Nov 2010
	<ul style="list-style-type: none"> ○ ‘Composite likelihood methods’ Department of Mathematics, University of Oslo 	Apr 2009
	<ul style="list-style-type: none"> ○ ‘Marginal regression models with stationary time series errors’ Department of Statistics, University of Warwick 	Mar 2009
	<ul style="list-style-type: none"> ○ ‘Gaussian autoregressive moving average copula models’ MAP5, University Paris V Descartes 	Jul 2008
	<ul style="list-style-type: none"> ○ ‘Composite likelihood methods in Markov chain models’ MAP5, University Paris V Descartes, 	Feb 2007
	<ul style="list-style-type: none"> ○ ‘Composite likelihood methods in Markov chain models’ Department of Statistics, Ludwig-Maximilians University Munich 	Jun 2006
	<ul style="list-style-type: none"> ○ ‘Composite likelihoods methods for temporal and spatial data’ Department of Economics and Finance, University Rome Tor Vergata 	May 2006
	<ul style="list-style-type: none"> ○ ‘Composite marginal likelihood inference’ Institute of Mathematics, EPFL Lausanne 	Jan 2006
	<ul style="list-style-type: none"> ○ ‘Composite marginal likelihood inference’ Department of Statistics, Ca’ Foscari University 	Jan 2006
<ul style="list-style-type: none"> ○ ‘Composite marginal likelihood inference’ Department of Statistics, University of Warwick, 	Sep 2005	
<ul style="list-style-type: none"> ○ ‘Marginal composite likelihood inference in GLMMs’ Department of Economics, Finance, and Statistics, University of Perugia 	Dec 2004	
<ul style="list-style-type: none"> ○ ‘Pairwise likelihood inference in spatial GLMMs’ Department of Statistics, University of Udine 	Feb 2003	
CONTRIBUTED CONFERENCE TALKS	<ul style="list-style-type: none"> ○ ‘Marginal beta regression for time series analysis’ 27th IWSM, Prague 	Jul 2012
	<ul style="list-style-type: none"> ○ ‘Overview of composite likelihood methods’ 2nd Workshop Composite Likelihood Methods, Banff 	Apr 2012
	<ul style="list-style-type: none"> ○ ‘Gaussian copula regression using R’ UseR! 2011 Conference, Warwick, 	Aug 2011
	<ul style="list-style-type: none"> ○ ‘The ranking lasso’ Workshop PRIN, Verona 	May 2011
	<ul style="list-style-type: none"> ○ ‘Hierarchical modelling of adult age-at-death in Paleodemography’ RSS 2009 Conference, Edinburgh 	Sep 2009
	<ul style="list-style-type: none"> ○ ‘Composite likelihood analysis of mixed autoregressive probit models’ Workshop Composite Likelihood Methods, Warwick 	Sep 2008
	<ul style="list-style-type: none"> ○ ‘Marginal regression models with correlated normal errors’ Workshop PRIN, Cagliari 	May 2009
	<ul style="list-style-type: none"> ○ ‘Gaussian autoregressive moving average copula models’ Workshop PRIN, Udine 	Jun 2008
	<ul style="list-style-type: none"> ○ ‘Pairwise likelihood inference for longitudinal ordinal outcomes’ 27th IWSM, Barcelona 	Jul 2007

- ‘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
SPRUCÉ 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
- Professor **Guido Masarotto**
Department of Statistical Sciences, University of Padova
Via Cesare Battisti, 241/243, 35121 Padova, Italy
guido.masarotto@unipd.it
- Professor **Nancy M Reid**
Department of Statistics, University of Toronto
100 St. George Street, M5S 3G3 Toronto, Canada
reid@utstat.utoronto.ca

Cristiano Varin: Publications

ONLINE
BIBLIOGRAPHY

Google Scholar:

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

ORCID:

<http://orcid.org/0000-0002-5591-5705>

PAPERS
IN
PEER-REVIEWED
JOURNALS

The three papers highlighted in the list below as **Highly Cited Paper** belong to the top 1% of the most cited papers in the category 'Mathematics' according to the Thompson Reuters' Web of Science **of the last decade**. 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.

- C Lacognata, F Crimi, A Guolo, C Varin, E De March, S Vio, A Ponzoni, G Barila, A Lico, A Branca, E De Biasi, F Gherlinzoni, V Scapin, E Bissoli, T Berno, R Zambello (2017), Diffusion-weighted whole-body MRI for evaluation of early response in multiple myeloma. *Clinical Radiology*, forthcoming.
- I Kosmidis, A Guolo and C Varin (2017). Improving the accuracy of likelihood-based inference in meta-analysis and meta-regression. *Biometrika* **104**, 489–496.
- G Masarotto and C Varin (2017). Gaussian copula regression in R. *Journal of Statistical Software* **77**, 1–26.
- Guolo A and Varin C (2017). Random-effects meta-analysis: The number of studies matters. *Statistical Methods in Medical Research* **26**, 1500–1518.
- A Spolaor, T Opel, JR McConnell, OJ Maselli, G Spreen, C Varin, T Kirchgeorg, D Fritzsche and P Vallelonga (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 NOx 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.
- **Highly Cited Paper**
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

- Cattelan M and Varin C (2013). A model for correlated paired comparison data. In *Advances in Theoretical and Applied Statistics*, N Torelli, F Pesarin and A Bar-Hen (Eds), Springer, 167–176.
- Bhat C, Varin C and Ferdous N (2010). A comparison of the maximum simulated likelihood and composite marginal likelihood estimation approaches in the context of the multivariate ordered response model. In *Advances in Econometrics Volume 26: Maximum Simulated Likelihood Methods and Applications*. C Hill and W Greene Eds, 65–106.

CONFERENCE
PROCEEDINGS

- Kosmidis I, Guolo A and Varin C (2016). Penalized likelihood inference in meta-regression. *Proceedings of the 31st International Workshop on Statistical Modelling*, 153–158. Rennes, July 4-8, 2016.
- Cattelan M and Varin C (2014). Composite likelihood estimation in spatial logistic regression. *Proceedings of the 47th Scientific Meeting of the Italian Statistical Society*. Cagliari, June 11-13, 2014.
- Cattelan M and Varin C (2013). Marginal modeling of dependent paired comparison data. *Proceedings of the 28th International Workshop on Statistical Modelling*, 529–532. Palermo, July 8-12, 2013.
- Cattelan M and Varin C (2013). Models for dependent paired comparison data. *Proceedings of the 18th European Young Statisticians Meeting*. Osijek, August 26-30, 2013.
- Cattelan M and Varin C (2013). Marginal regression analysis of dependent animal behavior data. *Proceedings of the IX Conference of Statistics in Life and Environmental Sciences*. Bressanone, June 27-28, 2013.

- Varin C and Guolo A (2012). Marginal beta regression for time series analysis. *Proceedings of the 27th International Workshop on Statistical Modelling*, 357–362. Praha, July 16-20, 2012.
- Cattelan M and Varin C (2011). A Thurstonian model for ranking scientific journals, *Proceedings S.Co. 2011: 7th Conference on Statistical Computation and Complex Systems*. Padova, September 19-21, 2011.
- Cattelan M and Varin C (2011). Hybrid pairwise likelihood analysis of Thurstone-Mosteller models. *Proceedings CLADAG 2011: 8th Scientific Meeting of the Classification and Data Analysis Group of the Italian Statistical Society*. Pavia, September 7-9, 2011.
- Cattelan M and Varin C (2010). A model for correlated paired comparison data. *Proceedings of the 45th Scientific Meeting of the Italian Statistical Society*. Padova, June 16-18, 2010.
- Varin C and Czado C (2007). Pairwise likelihood inference in dynamic models for longitudinal ordinal outcomes. *Proceedings of the 22nd International Workshop on Statistical Modelling*. Barcelona, July 2-6, 2007.
- Varin C and Czado C (2006). On the statistical analysis of ordinal categorical time series with application to migraine severity. *Proceedings of the Conference Statistical Latent Variables Models in the Health Sciences*. Perugia, September 6-8, 2006.
- Bellio R and Varin C (2004). Pairwise likelihood for generalized linear models with crossed random effects. *Proceedings of the 19th International Workshop on Statistical Modelling*. Firenze, July 4-8, 2004.

PUBLISHED
SOFTWARE

Open-source packages for the R statistical computing environment, published via the *Comprehensive R Archive Network*:

- Guolo A and Varin C (2011). *metaLik: Likelihood inference in meta-analysis and meta-regression models*. cran.r-project.org/web/packages/metaLik.
- Masarotto G and Varin C (2011). *gcmr: Gaussian copula marginal Regression*. cran.r-project.org/web/packages/gcmr.

THESES

- *Composite Likelihood Inference in Geostatistics*, PhD Thesis, University of Padova, 2003.
- *Classificazione Automatica di Galassie*, Laurea Thesis, University of Padova, 1999.