

# Curriculum Vitae Ioannis Kosmidis

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## RESEARCH INTERESTS

penalized and pseudo likelihood theory and methods; statistical computing and algorithms for regression models; methods for clustering; interdisciplinary data-analytic applications; software development.

## EMPLOYMENT HISTORY AND AFFILIATIONS

08/2021 – present **Professor of Statistics**, Department of Statistics, **University of Warwick**  
04/2023 – present **Honorary Professor of Statistics**, Department of Statistical Science, **University College London**  
01/2018 – 08/2021 **Reader in Data Science**, Department of Statistics, **University of Warwick**  
01/2018 – 01/2023 **Honorary Reader in Statistics**, Department of Statistical Science, **University College London**  
09/2016 – 09/2024 **Turing Fellow**, **Alan Turing Institute**  
10/2015 – 12/2017 **Senior Lecturer**, Department of Statistical Science, **University College London**  
09/2010 – 09/2015 **Lecturer**, Department of Statistical Science, **University College London**  
01/2012 – 07/2012 **Senior Research Fellow**, Department of Statistics, **University of Warwick**  
09/2007 – 09/2010 **CRiSM Research Fellow**, Department of Statistics, **University of Warwick**

## EDUCATION

10/2004 – 09/2007 **PhD in Statistics**, **University of Warwick** viva 21/09/2007  
01/2003 – 06/2003 Department of Probability and Statistics, **University of Sheffield** (ERASMUS exchange)  
09/2000 – 06/2004 **BSc (Statistics)**, **Athens University of Economics and Business**

## PROFESSIONAL SERVICE

### Editorial responsibilities and refereeing activity

01/2021 – present **Committee member** at the **Royal Statistical Society's Research Section**  
10/2011 – present **Associate Editor** for the **Journal of Statistical Software**  
01/2018 – 01/2023 **Associate Editor** for **Biometrika**  
10/2013 – 12/2019 **Associate Editor** for **Statistics and Computing**  
09/2007 – present **Referee** for **more than 40 journals**

### Membership of professional societies, committees, and research groups

10/2007 – present **Royal Statistical Society** (fellow)  
05/2020 – 01/2022 **Liaison** in the **EUTOPIA Learning Community** "Data and critical thinking"  
09/2017 – 09/2022 **Turing Interest Group** on **Data Science for Sports, Activity, and Well-being** (founder, organizer)  
11/2016 – 10/2021 **Royal Statistical Society's Statistics in Sport Section** (committee member)  
01/2019 – 09/2020 **Turing Interest Group** on **Machine Learning by Systems, for Systems** (member)  
09/2017 – 09/2020 **Turing Interest Group** on **Online Machine Learning** (member)  
09/2015 – 12/2017 **Statistics for Health Economic Evaluation research group**, **University College London** (member)  
05/2015 – 12/2017 **Statistics in Sports and Health research group**, **University College London** (founder, leader)  
09/2014 – 12/2017 **EPICentre research group**, **University College London** (member)

### Organisation of conferences, workshops and scientific events

O: Organiser, CO: Co-Organiser, SPC: Scientific Programme Committee

07/2024 CO, SPC **Greek Stochastics  $\xi'$ : Statistics in Health** (Folegandros, Greece)  
07/2023 CO, SPC **Greek Stochastics  $\nu'$ : Contemporary Bayesian Inference** (Naxos, Greece)  
08/2022 CO, SPC **Greek Stochastics  $\mu'$ : Causal Learning** (Corfu, Greece)  
08/2019 CO, SPC **Greek Stochastics  $\lambda'$ : Stochastics Processes and Computation** (Corfu, Greece)  
03/2018 O **BayesComp 2018** invited session  
**Deterministic Approximation Methods and Pseudo-Likelihoods** (Barcelona, Spain)  
12/2018 CO, SPC **Greek Stochastics  $\kappa'$ : Statistical Learning** (Athens, Greece)

07/2017	CO, SPC	<b>Greek Stochastics <math>\iota'</math>: Model Determination</b> (Milos, Greece)
06/2017	CO, SPC	<b>3rd UCL Workshop on the Theory of Big Data</b> (London, UK)
01/2016	CO, SPC	<b>2nd UCL Workshop on the Theory of Big Data</b> (London, UK)
07/2016	CO, SPC	<b>Greek Stochastics <math>\theta'</math>: Big Data and Models</b> (Tinos, Greece)
11/2015	CO, SPC	Alan Turing Institute Scoping Workshop <b>Data Science for Data-rich Sports</b> (London, UK)
01/2015	CO, SPC	<b>1st UCL Workshop on the Theory of Big Data</b> (London, UK)
12/2014	O	ERCIM 2014 invited session <b>Handling Nuisance Parameters</b> (Pisa, Italy)
09/2012	CO	<b>Imperial-UCL Joint Statistics Symposium</b> (London, UK)
09/2011	CO, SPC	<b>useR! 2011 Conference</b> (Coventry, UK)
04/2008	CO	<b>Workshop on Composite Likelihood Methods</b> (Coventry, UK)

### Organisation of other academic and enabling activities

06/2019 – 10/2023	Theory & Methods Challenge Fortnights in Data Science and Artificial Intelligence, Turing Institute
02/2016 – 06/2016	Reading group on "Statistical Learning with Sparsity"
11/2016 – 12/2016	Statistics in Sports and Health 2016 meet-up series
02/2011 – 06/2012	CSML book club on "Asymptotic Statistics"
11/2010 – 09/2011	Reading group on "Foundations of Statistics"

### Academic administration

09/2024 – present	Head of Statistical Theory and Methodology group, Department of Statistics, University of Warwick
09/2023 – present	External examiner for the MSc in Statistics, London School of Economics
09/2022 – 09/2023	Course Director in Data Science, University of Warwick
04/2023 – 09/2023	Turing Liaison (academic), University of Warwick
01/2022 – 03/2023	Turing University Lead, University of Warwick
09/2019 – 12/2021	Course Director in Data Science, University of Warwick
09/2019 – 09/2020	Member of the Management Group, Department of Statistics, University of Warwick
06/2018 – 06/2024	External examiner for the International Foundation Programme, University of London
06/2015 – 06/2019	External examiner to the EMFSS Board of Examiners, University of London International Academy
10/2013 – 12/2017	Member of the Bibliometrics working group, University College London
01/2011 – 12/2017	Chair of the Computing and Infrastructure Committee, Department of Statistical Science, University College London
09/2008 – 09/2010	Programme Manager of the Academy for PhD Training in Statistics (APTS)
01/2009 – 09/2010	Computing Committee Member, Department of Statistics, University of Warwick
01/2008 – 09/2010	Contract Research Staff Representative, Department of Statistics, University of Warwick
09/2005 – 09/2006	Chairman of Postgraduate Staff Student Liaison Committee, Department of Statistics, University of Warwick

## PUBLICATIONS

### Theory and methods

- P1. Jeffreys-prior penalty for high-dimensional logistic regression: A conjecture about aggregate bias.  
Kosmidis I, Zietkiewicz P (2025)  
**Statistical Science** (accepted).  
*Preprint at ArXiv e-prints (2311.11290)*
- P2. Bounded-memory adjusted scores estimation in generalized linear models with large data sets.  
Zietkiewicz P, Kosmidis I (2024)  
**Statistics and Computing**, **34**, 138.  
*Preprint at ArXiv e-prints (2307.07342)*
- P3. Bayesian Tensor Factorisations for Time Series of Counts.  
Wang Z, Dellaportas P, Kosmidis I (2024)  
**Machine Learning**, **113**, 3731-3750.  
Journal Track Paper of The 15th Asian Conference on Machine Learning (**ACML 2023**).  
*Preprint at ArXiv e-prints (2311.06076)*
- P4. Empirical bias-reducing adjustments to estimating functions.  
Kosmidis I, Lunardon N (2024)  
**Journal of the Royal Statistical Society: Series B**, **86**, 62-89.  
*Preprint at ArXiv e-prints (2001.03786)*
- P5. Mean and median bias reduction: A concise review and application to adjacent-categories logit models  
Kosmidis I (2023)

- In: Kateri, M., Moustaki, I. (eds) **Trends and Challenges in Categorical Data Analysis. Statistics for Social and Behavioral Sciences**. Springer, Cham.
- P6. Scalable Marked Point Processes for Exchangeable and Non-Exchangeable Event Sequences.  
Panos A, Kosmidis I, Dellaportas P (2023)  
In: Proceedings of The 26th International Conference on Artificial Intelligence and Statistics (**AISTATS 2023**), PMLR 206:236-252
- P7. Flexible marked spatio-temporal point processes with applications to event sequences from association football.  
Narayanan S, Kosmidis I, Dellaportas P (2023)  
**Journal of the Royal Statistical Society: Series C**, **72**, 1095–1126 (with discussion).
- P8. Maximum softly-penalized likelihood for mixed effects logistic regression.  
Sterzinger P, Kosmidis I (2023)  
**Statistics and Computing**, **33**, 53.
- P9. Parametric bootstrap inference for stratified models with high-dimensional nuisance specifications.  
Bellio R, Kosmidis I, Salvan A, Sartori N (2023)  
**Statistica Sinica**, **33**.
- P10. Two-way sparsity for time-varying networks with applications in genomics.  
Bartlett T E, Kosmidis I, Silva R (2021)  
**Annals of Applied Statistics**, **15**, 866–879.
- P11. Voxel-wise and spatial modelling of binary lesion masks: Comparison of methods with a realistic simulation framework.  
Kindalova P, Kosmidis I, Nichols T E (2021)  
**NeuroImage**, **236**, 118090.
- P12. Jeffreys-prior penalty, finiteness and shrinkage in binomial-response generalized linear models.  
Kosmidis I, Firth D (2021)  
**Biometrika**, **108**, 71–82
- P13. Mean and median bias reduction in generalized linear models.  
Kosmidis I, Kenne Pagui E C, Sartori N (2020)  
**Statistics and Computing**, **30**, 43–59
- P14. Location-adjusted Wald statistic for scalar parameters.  
Di Caterina C, Kosmidis I (2019)  
**Computational Statistics and Data Analysis**, **138**, 126–142
- P15. Median bias reduction in random-effects meta-analysis and meta-regression.  
Kyriakou S, Kosmidis I, Sartori N (2019).  
**Statistical Methods in Medical Research**, **28**, 1622–1636
- P16. Improving the accuracy of likelihood-based inference in meta-analysis and meta-regression.  
Kosmidis I, Guolo A, Varin C (2017)  
**Biometrika**, **104**, 489–496
- P17. Model-based clustering using copulas with applications.  
Kosmidis I, Karlis D (2016).  
**Statistics & Computing**, **26**, 1079–1099
- P18. Bias in parametric estimation: reduction and useful side-effects.  
Kosmidis I (2014).  
**WIRE Computational Statistics**, **6**, 185–196
- P19. Improved estimation in cumulative link models.  
Kosmidis I (2014).  
**Journal of the Royal Statistical Society: Series B**, **76**, 169–196
- P20. Multinomial logit bias reduction via the Poisson log-linear model.  
Kosmidis I, Firth D (2011).  
**Biometrika**, **98**, 755–759
- P21. Simulating events of unknown probabilities via reverse time martingales.  
Latuszynski K, Kosmidis I, Papaspiliopoulos O, Roberts G O (2011).  
**Random Structures and Algorithms**, **38**, 441–452
- P22. A generic algorithm for reducing bias in parametric estimation.  
Kosmidis I, Firth D (2010).  
**Electronic Journal of Statistics**, **4**, 1097–1112
- P23. Bias reduction in exponential family non-linear models.  
Kosmidis I, Firth D (2009).  
**Biometrika**, **96**, 793–804

## Applications

- P24. A Bayesian inference approach for determining player abilities in football.

- Whitaker, G A, Silva, R, Edwards, D, Kosmidis, I (2021).  
**Journal of the Royal Statistical Society: Series C**, **70**
- P25. Spatial distribution and cognitive impact of cerebrovascular risk-related white matter hyperintensities.  
 Veldsman M, Kindalova P, Husain M, Kosmidis I, Nichols T E (2020).  
**NeuroImage: Clinical**, **28**, 102405.
- P26. Modeling outcomes of soccer matches.  
 Tsokos, A, Narayanan, S, Kosmidis, I, Baio, G, Cucuringu, M, Whitaker, G, Király, F J (2019).  
**Machine Learning**, **108**, 77-95
- P27. Empirical seismic vulnerability assessment of Icelandic buildings affected by the 2000 sequence of earthquakes.  
 Ioannou I, Bessason B, Kosmidis I, Bjarnason J Ö., Rossetto T (2018).  
**Bulletin of Earthquake Engineering**, **16**, 5875–5903
- P28. Seismic vulnerability functions for Australian buildings by using GEM empirical vulnerability assessment guidelines.  
 Maqsood T, Edwards M., Ioannou I, Kosmidis I, Rossetto T, Corby N (2015).  
**Natural Hazards**, **80**, 1625–1650
- P29. Liquidity commonality does not imply liquidity resilience commonality: A functional characterisation for ultra-high frequency cross-sectional LOB data.  
 Panayi E, Peters G W, Kosmidis I (2015).  
**Quantitative Finance**, **15**, 1737–1758
- P30. Upside and downside risk exposures of currency carry trades via tail dependence.  
 Ames M, Peters G, Bagnarosa G, Kosmidis I (2015).  
 In: Glau K, Scherer M, Zagst R (Eds.), **Innovations in Quantitative Risk Management**, Volume 99 of Springer Proceedings in Mathematics & Statistics, 163–181

#### Papers on statistical software

- P31. Modelling rankings in R: the PlackettLuce package.  
 Turner H L, van Etten J, Firth D, Kosmidis I (2020)  
**Computational Statistics** **35**, 1027–1057
- P32. tracker: Infrastructure for running and cycling data from GPS-enabled tracking devices in R.  
 Frick H, Kosmidis I (2017)  
**Journal of Statistical Software**, **82** (7)  
*Vignette*: <https://cran.r-project.org/web/packages/tracker/vignettes/tracker.pdf>
- P33. Extended Beta Regression in R: Shaken, Stirred, Mixed, and Partitioned.  
 Grün B, Kosmidis I, Zeileis A (2012).  
**Journal of Statistical Software**, **48** (11)
- P34. The profileModel R package: Profiling objectives for models with linear predictors.  
 Kosmidis, I (2008).  
**R News**, **8/2**, 12–18, R Foundation for Statistical Computing

#### Working papers and unpublished reports (titles subject to change; authors listed alphabetically when no preprint)

- P35. Diaconis-Ylvisaker prior penalized likelihood for  $p/n \rightarrow \kappa \in (0, 1)$  logistic regression.  
 Sterzinger P, Kosmidis I  
*Preprint at ArXiv e-prints (2311.07419)*
- P36. Extended-support beta regression for  $[0, 1]$  responses.  
 Kosmidis I, Zeileis A  
*Preprint at ArXiv e-prints (2409.07233)*
- P37. Penalized generalized estimating equations for relative risk regression with applications to brain lesion data.  
 Kindalova P, Veldsman M, Nichols T E, Kosmidis I  
*Preprint at bioRxiv e-prints (DOI: 10.1101/2021.11.01.466751)*
- P38. Bias reduction as a remedy to the consequences of infinite estimates in poisson and tobit regression.  
 Köll S, Kosmidis I, Kleiber C, Zeileis A  
*Preprint at ArXiv e-prints (2101.07141)*
- P39. Davidson-Luce model for multi-item choice with ties.  
 Firth D, Kosmidis I, Turner H L  
*Preprint at ArXiv e-prints (1909.07123)*
- P40. Multi yield curve stress-testing framework incorporating temporal and cross tenor structural dependencies.  
 Karimalis E, Kosmidis I, Peters G W  
*Preprint at Bank of England Staff Working Paper Series (Working Paper 655)*
- P41. Linking the performance of endurance runners to training and physiology effects via multi-resolution elastic net.  
 Kosmidis I, Passfield L  
*Preprint at ArXiv e-prints (1506.01388)*
- P42. Supervised sampling for clustering large data sets.

Kosmidis I, Karlis D

*Preprint at CRiSM Working Paper Series (Paper 10-10)*

P43. On iterative adjustment of responses for the reduction of bias in binary regression models

Kosmidis I

*Preprint at CRiSM Working Paper Series (Paper 09-36).*

P44. Fixed-effects estimation of two-parameter logistic models.

Bellio R, Kosmidis I, Sartori N

P45. Scalable computation for generalized linear and nonlinear models in the presence of a large nuisance factor.

Firth, D, Kosmidis, I

P46. The brglm2 R package: Reduced-bias inference for generalized linear models with dispersion parameters.

Kosmidis I

## SOFTWARE

### Stable

- S1. betareg: Beta regression (R; author)
- S2. brglm: Bias reduction for binomial-response generalized linear models (R; author, maintainer)
- S3. brglm2: Bias Reduction in Generalized Linear Models (R; author, maintainer)
- S4. cranly: Package directives and collaboration networks in CRAN (R; author, maintainer)
- S5. detectseparation: Detect and check for separation and infinite maximum likelihood estimates (R; author, maintainer)
- S6. enrichwith: Methods to enrich various R objects with extra components (R; author, maintainer)
- S7. GEEBRA General estimating equations with or without bias-reducing adjustments (Julia; author; maintainer)
- S8. MEstimation Methods for M-estimation of statistical models (Julia; author; maintainer)
- S9. PlackettLuce: Plackett-Luce models (R; author)
- S10. profileModel: Tools for profiling inference functions for various model classes (R; author, maintainer)
- S11. semnar: Methods for constructing and interacting with databases of presentations (R; author, maintainer)
- S12. tracker: Infrastructure for running, cycling and swimming data from GPS-enabled tracking devices (R; author, maintainer)
- S13. trackeRapp Interface for the analysis of running, cycling and swimming data (R; author, maintainer)

### In early development phase

- S14. brtobit: Bias-reduced Tobit regression models (R; author)
- S15. brquasi: Bias reduction in quasi likelihood estimation (R; author, maintainer)
- S16. brRasch: Maximum likelihood and bias reduction for fixed-effects Rasch models (R; author, maintainer)
- S17. coursehand: Course handbook maintenance at the Department of Statistics, University of Warwick (R; author, maintainer)
- S18. GoldenCheetahOpenData: R API and Local Database Management for the GoldenCheetah OpenData Project (R; author, maintainer)
- S19. walddi: Location-adjusted Wald statistics (R; author, maintainer)

### Publication profiles

Google Scholar <https://scholar.google.co.uk/citations?user=CpZBF2wAAAAJ>

ResearcherID <http://www.researcherid.com/rid/A-3012-2012>

## RESEARCH VISITS & INVITED TALKS

IS: Invited Seminar/Talk, RV: longer Research Visit, ID: Invited Discussant, KE: Keynote talk

10/2024	IS	<b>Workshop on Challenges for Categorical Data Analysis</b> , London, UK
06/2024	IS	<b>ISNPS 2024</b> , Braga, Portugal
05/2024	IS, RV	Informatics and Statistics, <b>Ca' Foscari University</b> , Italy
02/2024	IS, RV	Department of Decision Sciences, <b>Bocconi University</b> , Italy
01/2024	RV	Faculty of Economics and Statistics, <b>University of Innsbruck</b> , Austria
08/2023	IS	<b>Joint Statistical Meetings 2023</b> , Toronto, Canada
06/2023	IS	<b>Jean Golding Institute and Heilbronn Institute</b> , Bristol, UK
05/2023	IS, RV	Informatics and Statistics, <b>Ca' Foscari University</b> , Italy
11/2022	IS	Algorithms & Computationally Intensive Inference seminars, <b>University of Warwick</b> , UK
11/2022	IS	School of Economics, <b>University of Surrey</b> , UK
07/2022	IS, KE	<b>International Workshop on Statistical Modelling 2022</b> , Trieste, Italy
05/2022	IS	Research School of Finance, Actuarial Studies and Statistics, <b>Australian National University</b> , Australia

03/2022	IS	Algorithms & Computationally Intensive Inference seminars, <b>University of Warwick</b> , UK
03/2021	IS	Department of Statistics, <b>Athens University of Economics and Business</b> , Greece
12/2020	IS	Department of Statistics Teaching Forum, <b>University of Warwick</b> , UK
12/2020	IS	Learning Tools and Applied Quantitative Methods for Decision Making, <b>Free University of Bozen-Bolzano</b> , Italy
10/2020	IS	Department of Mathematical Sciences, <b>Durham University</b> , United Kingdom
06/2020	IS	<b>European R users meeting (eRum) 2020</b> , Milan, Italy
03/2020	IS	Geneva School of Economics and Management, <b>University of Geneva</b> , Switzerland
03/2020	IS	Institute of Mathematics, <b>EPFL</b> , Lausanne, Switzerland
03/2020	IS	School of Mathematics, <b>Cardiff University</b> , UK
02/2020	IS	Department of Mathematics, <b>Imperial College London</b> , UK
02/2020	IS	Big Data Institute, <b>University of Oxford</b> , UK
02/2020	IS	Algorithms & Computationally Intensive Inference seminars, <b>University of Warwick</b> , UK
01/2020	IS, RV	School of Mathematics and Statistics, <b>University College Dublin</b> , Ireland
12/2019	IS	REG tech talks, <b>The Alan Turing Institute</b> , London, UK
09/2019	IS, RV	Department of Economics and Statistics, <b>University of Udine</b> , Italy
09/2019	IS	<b>RSS Conference 2019</b> , Belfast, Ireland
08/2019	IS	<b>WHOA-PSI 4</b> , St. Louis, MO, USA
07/2019	IS, KE	<b>MathSports International 2019</b> , Athens, Greece
06/2019	IS, RV	Department of Statistical Sciences, <b>University of Toronto</b> , Canada
05/2019	IS	Young Researchers' Meeting, Department of Statistics, <b>University of Warwick</b> , UK
05/2019	IS	Theory and Algorithms in Data Science seminar, <b>The Alan Turing Institute</b> , London, UK
04/2019	IS	<b>CRoNoS &amp; MDA 2019</b> , Limassol, Cyprus
04/2019	IS	School of Mathematics, <b>University of Manchester</b> , UK
02/2019	IS	Algorithms & Computationally Intensive Inference seminars, <b>University of Warwick</b> , UK
11/2018	IS	School of Mathematics, <b>University of Edinburgh</b> , UK
10/2018	IS	<b>Oxford R Users Group</b> , UK
10/2018	IS, RV	Department of Economics, Quantitative Methods and Business Strategy, <b>University of Milano-Bicocca</b> , Italy
10/2018	IS	<b>Workshop on Challenges for Categorical Data Analysis</b> , Aachen, Germany
10/2018	IS	OxWasp Annual Workshop 2018, <b>University of Warwick</b> , Coventry, UK
06/2018	IS	<b>ISNPS 2018</b> , Salerno, Italy
06/2018	IS	<b>Workshop on Machine Learning and Econometrics</b> , <b>CEMMAP</b> , London, UK
05/2018	IS	Institute of Statistics and Mathematics, <b>WU Wien</b> , Austria
12/2017	IS	Department of Mathematics, <b>King's College London</b> , UK
11/2017	IS	<b>2nd AUEB Sports Analytics Workshop 2017</b> , Athens, Greece
08/2017	IS	<b>CEN ISBS Joint Conference on Biometrics &amp; Biopharmaceutical Statistics</b> , Vienna, Austria
03/2017	IS	S3RI, <b>University of Southampton</b> , UK
02/2017	IS	CeMSIIS, <b>Medical University of Vienna</b> , Austria
02/2017	IS	Department of Statistics, <b>University of Warwick</b> , UK
02/2017	IS	Department of Statistical Science, <b>University College London</b> , UK
01/2017	IS, RV	Empirical Economics and Econometrics Research Centre, <b>University of Innsbruck</b> , Austria
11/2016	IS	School of Mathematics and Statistics, <b>University of Glasgow</b> , UK
11/2016	IS	Department of Mathematics, <b>University of York</b> , UK
05/2016	IS	<b>Royal Statistical Society East Midlands Local Group</b> , Nottingham, UK
02/2016	IS	School of Mathematics, <b>University of Edinburgh</b> , UK
11/2015	IS, RV	Department of Economics, <b>Universitat Pompeu Fabra</b> , Spain
11/2015	IS	Meeting of the Statistical Computing and Sport Sections, <b>Royal Statistical Society</b> , London, UK
05/2015	IS	<b>SuSTaln i-like workshop, "Intractable Likelihoods"</b> , Bristol, UK
04/2015	IS, RV	Faculty of Economics and Business, <b>KU Leuven</b> , Belgium
04/2015	IS	<b>51st Gregynog Statistical Conference</b> , Powys, UK
03/2015	IS, RV	Department of Statistics, <b>University of Padova</b> , Italy
03/2015	IS, RV	Informatics and Statistics, <b>Ca' Foscari University</b> , Italy
02/2015	IS	School of Mathematics, <b>University of Bristol</b> , UK
02/2015	IS	School of Mathematical Sciences, <b>Queen Mary University of London</b> , UK
10/2014	IS	School of Mathematics, Statistics and Actuarial Science, <b>University of Kent</b> , UK
06/2014	IS, RV	Informatics and Statistics, <b>Ca' Foscari University</b> , Italy
11/2013	IS	Department of Statistics, <b>LSE</b> , UK
10/2013	IS	Department of Mathematics, <b>Imperial College London</b> , UK
05/2013	IS	Department of Statistics, <b>University of Oxford</b> , UK
04/2013	IS, RV	Department of Statistics, <b>Athens University of Economics and Business</b> , Greece

01/2013	IS, RV	School of Computing Sciences, <b>University of East Anglia</b>
03/2013	ID	<b>International Workshop on Recent Advances in Statistical Inference</b> , Padova, Italy
11/2012	IS	Department of Statistics, <b>University of Vienna</b> , Austria
11/2012	IS	School of Mathematics and Statistics, <b>Newcastle University</b> , UK
05/2012	IS, RV	Faculty of Economics and Statistics, <b>Universität Innsbruck</b> , Austria
02/2012	IS	<b>London School of Hygiene and Tropical Medicine</b> , UK
08/2011	RV	Department of Statistics, <b>Harvard University</b> , USA
12/2010	IS	School of Mathematics, <b>University of Southampton</b> , UK
11/2010	IS, RV	Department of Economics, <b>Universitat Pompeu Fabra</b> , Spain
05/2010	IS	School of Mathematical Sciences, <b>Queen Mary University of London</b> , UK
05/2009	IS, RV	Department of Statistics, <b>University of Padova</b> , Italy
05/2006	IS, RV	Department of Statistics, <b>Athens University of Economics and Business</b> , Greece

## CONTRIBUTIONS TO CONFERENCES, WORKSHOPS & PUBLIC EVENTS

07/2019	trackeRapp: An integrated shiny workflow for the analysis of running, cycling and swimming data. <i>useR! 2019 Conference, Toulouse, France</i>
07/2019	Making sense of CRAN: Package and collaboration networks. <i>useR! 2019 Conference, Toulouse, France</i>
05/2019	On your mark, get set, go! Data scientists making platforms for your exercise data. <i>Pint Of Science, London, UK</i>
09/2018	Beyond Beta regression: modelling bounded-domain variables in the presence of boundary observations. <i>RSS Conference 2018, Cardiff, Wales</i>
07/2016	Penalized likelihood inference in meta-regression. <i>31st IWSM, Rennes, France</i>
06/2016	brglm2: Reduced-bias inference in generalized linear models. <i>useR! 2016 Conference, Stanford, US</i>
12/2015	Beyond Beta regression: modelling percentages and fractions in the presence of boundary observations. <i>ERCIM 2013, London, UK</i>
07/2015	Linking the performance of endurance runners to training and physiology effects via multi-resolution elastic net. <i>Greek Stochastics <math>\eta'</math>, Crete, Greece</i>
07/2015	Beyond beta regression: modelling percentages and fractions in the presence of boundary observations. <i>30th IWSM, Linz, Austria</i>
06/2015	Linking the performance of endurance runners to training and physiology effects via multi-resolution elastic net. <i>MathSport International 2015, Loughborough, UK</i>
12/2014	Effects of bias on inference in the presence of nuisance parameters: case studies and questions. <i>ERCIM 2014, Pisa, Italy</i>
12/2013	Beyond Beta regression: modelling percentages and fractions in the presence of boundary observations. <i>ERCIM 2013, London, UK</i>
07/2013	Reduced-bias inference for multi-dimensional Rasch models. <i>28th IWSM, Palermo, Italy</i>
07/2012	Bias reduction in the estimation of Rasch models. <i>8th World Congress in Probability and Statistics, Istanbul, Turkey</i>
12/2011	Model-based clustering using copulas. <i>ERCIM 2011, London, UK</i>
08/2011	brglm: Bias reduction in generalized linear models. <i>useR! 2011 Conference, Coventry, UK</i>
08/2011	A generic algorithm for reducing bias in parametric estimation. <i>JSM, FL, US</i>
05/2011	Multinomial logit bias reduction via the Poisson log-linear model. <i>Greek Stochastics <math>\gamma'</math>, Crete, Greece</i>
09/2010	Supervised sampling for clustering large data sets. <i>RSS Conference 2010, Brighton, UK</i>
08/2010	On iterative adjustment of responses for the reduction of bias in categorical response models. <i>Greek Stochastics <math>\beta'</math>, Lefkada, Greece</i>
10/2009	Profiling the parameters of models with linear predictors. <i>ERCIM 2009, Limassol, Cyprus</i>
08/2009	Bias reduction in generalized nonlinear models. <i>JSM 2009, DC, US</i>
07/2009	On iterative adjustment of responses for the reduction of bias in binary regression. <i>24th IWSM, NY, US</i>
08/2008	Profiling the parameters of models with linear predictors. <i>useR! 2008 Conference, Dortmund, Germany</i>
07/2007	Penalized likelihood for a three-parameter Rasch model. <i>22nd IWSM, Barcelona, Spain</i>
07/2006	Bias reduction and shrinkage in multinomial logit models. <i>21st IWSM, Galway, Ireland</i>
07/2005	Bias reduction in ordinal response models. <i>25th EMS, Oslo, Norway</i>

## RESEARCH FUNDING AND FUNDING FOR RESEARCH ACTIVITIES

RC: Research Contract, RG: Research Grant, RS: Research Studentship, SE: Scientific Event, TVG: Travel/Visitor grant				
PI: Principal Investigator, CI: Co-Investigator				
G9. Theory & Methods Challenge Fortnights	SE	PI	01/2019 –	funding for 2019-2024
The Alan Turing Institute				

G8. Trusted Digital Infrastructure for Identity Systems The Alan Turing Institute	RG	PI	10/2020 – 10/2021	£85.0K
G7. Warwick Impact Fund Award University of Warwick	RG	PI	03/2018 – 03/2019	£11.0K
G6. Turing Fellowship The Alan Turing Institute	RG	PI	01/2018 – 08/2021	= 60% Warwick FTE
G5. Statistical assessment of Olympic athletes performance English Institute of Sport	RC	PI	02/2015 – 02/2017	£160.0K
G4. Automated approaches to athlete workload monitoring English Institute of Sport and EPSRC	RS	PI	09/2015 – 01/2019	£69.5K
G3. Turing Fellowship The Alan Turing Institute	RG	PI	09/2016 – 01/2018	= 40% UCL FTE
G2. "Data science for data-rich sport" workshop The Alan Turing Institute	SE	CI	11/2015	£14.0K
G1. Grant for international visitors UCL Big Data Institute	TVG	PI	08/2016	£2.5K

## AWARDS & SCHOLARSHIPS

06/2014	UCL's Mathematical and Physical Sciences (MAPS) Faculty Teaching Award for 2014
07/2007	Best student poster award in 22nd IWSM
10/2004 – 09/2007	EPSRC funding for tuition fees (PhD studies)
10/2004 – 09/2007	Warwick Postgraduate Research Fellowship (PhD studies)
2003–04, 2002–03, 2001–02	G Chalkiopoulos Foundation annual scholarship award for exceptional student performance

## TEACHING EXPERIENCE

U: Undergraduate level, G: Graduate level, P: PhD level

### Topics in statistics: Generalized linear models with large data

U	University of Warwick	Coventry, UK	Term 2 2017–2018; 2018–2019; 2019–2020
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### Scalable regression: old tricks, new era

P	The Alan Turing Institute	London, UK	05/2018
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### Regression modelling with large data sets

P	University of Padova	Padova, Italy	05/2021
P	University of Bristol	Bristol, UK	04/2021
P	University of Padova	Padova, Italy	09/2020
P	University of Padova	Padova, Italy	05/2018
P	University of Innsbruck	Innsbruck, Austria	01/2017
G	Barcelona GSE Data Science	Barcelona, Spain	11/2015; 10/2016

### Linear and generalized linear models

G	Athens University of Economics and Business	Athens, Greece	06/2014; 03/2015
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### Further modelling with applications in health research: Proportional odds models

U, G	University College London	London, UK	Term 2 2013–2015; 2014–2015
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### Linear models and the analysis of variance

U	University College London	London, UK	Term 1 2010–2011; 2011–2012; 2012–2013; 2013–2014; 2014–2015; 2015–2016
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### Introduction to significance tests

G	University College London	London, UK	Term 1 2011–2012; 2012–2013; 2013–2014; 2015–2016
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### Introduction to practical statistics

U	University College London	London, UK	Term 2 2010–2011
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### Advanced topics in statistics: asymptotic statistics

U, G	University of Warwick	Coventry, UK	Term 1 2009–2010
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## COMPUTING SKILLS & LANGUAGES

Programming languages (in order of usage)	R, Julia, Python, C, Mathematica
Operating systems (in order of usage)	Mac OS X, Linux, Windows
Languages	Greek (mother tongue), English, German

## ACADEMIC SUPERVISION

### Post-Doctoral Research Associates

Aristeidis Panos	first advisor	10/2020 – 10/2021
Thomas Bartlett	host advisory team	09/2016 – 09/2020
Gavin Whitaker	second advisor	11/2016 – 10/2018
Hannah Frick	first advisor	02/2015 – 02/2017

### Current PhD students

Oliver Kemp	first supervisor	started 08/2022
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### Completed PhD students

Patrick Zietkiewicz	first supervisor	viva 09/2024
Model selection by thresholding with applications to generalized linear models		
Philipp Sterzinger	first supervisor	viva 09/2024
Improving estimation and prediction from statistical models		
Petya Kindalova	joint supervisor	viva 12/2021
Advances in statistical methods for large-scale binary-valued neuroimaging data		
Zhenzheng Hu	joint supervisor	viva 08/2021
Dirichlet process probit misclassification mixtures model for misclassified binary data		
Zhongzhen Wang	joint supervisor	viva 04/2021
Statistical modelling approaches with Bayesian tensor factorisations		
Asma Saleh	first supervisor	viva 02/2021
Reduced-bias estimation of some non-standard models		
Santhosh Narayanan	first supervisor	viva 06/2020
Bayesian modelling of flexible marked point processes with applications to event sequences from association football		
Alkeos Tsokos	first supervisor	viva 11/2019
Exploiting smoothness in regression and joint models		
Sophia Kyriakou	first supervisor	viva 05/2018
Reduced-bias estimation and inference for mixed-effects models		
Claudia Di Caterina	external supervisor	visited 09/2015 – 09/2016
Reducing the impact of bias in likelihood inference for prominent model settings		
Stylianios Kampakis	joint supervisor	viva 06/2016
Predictive modelling of football injuries		
Emmanouil Karimalis	external supervisor	visited 09/2013 – 12/2014
Essays in multivariate modelling in Finance		

### Interns and visiting project students

2023 – 2024 (2):	Alexander Ahl (intern at University of Warwick; 07/2023 – 09/2024), Shreeja Bhakat (intern at University of Warwick; 07/2024 – 09/2024)	
2018 – 2019 (1):	Anastasiya Tsyhanova (intern at University of Warwick; 07/2019 – 09/2019)	
2017 – 2018 (4):	Robin Hornak (intern at University of Warwick; 07/2018 – 08/2018), Andrew McCormack (visiting from University of Toronto; 06/2018 – 07/2018), Alessandra Cabassi (intern at Turing Institute; 06/2018 – 09/2018), Junyang Wang (intern at Turing Institute; 06/2018 – 09/2018)	
2015 – 2016 (3):	Santhosh Narayanan (visiting from GSE Data Science; 06/2016 – 09/2016), Sarah Inman (visiting from GSE Data Science; 06/2016 – 09/2016), Alexia Calandras (visiting from ENSTA ParisTech; 05/2016 – 07/2016)	

### **MSc and M-level project supervision**

2024 – 2025 (4): Josh Harrison, Elliot Joyce, Nic Thompson, Maria-Louiza Van Den Bergh  
2023 – 2024 (3): Bassil Kart, Yuan Xiong, Tong Xu  
2022 – 2023 (2): Deepthi Dokka, Nivi Sivanantharajah  
2021 – 2022 (2): Dylan Dijk, Janique Krasnowska  
2020 – 2021 (5): Mingcong Chen, Aaron O'Brien, Jack Osmond, Harry Rusdale, Fernando Zepeda  
2019 – 2020 (8): Ilse Cuevas Andrade, Daniel Caplan, Chenglei Hu, Jane Jiang, Dimitra Kousi, Afentra Theocharous, Shannon Williams, Patrick Zietkiewicz  
2018 – 2019 (4): Ziyi Sun, Amy Wang, Declan Wardell, Yuliang Weng  
2017 – 2018 (4): Mingyu Chen, Ruijun Hou, Shuyang Wang  
Dimitrios Papadimitriou (Tukey prize for best MSc dissertation in the dept of Statistics)  
2016 – 2017 (1): Zhenzheng Hu  
2015 – 2016 (4): Sidney Bixer, Alberto Martin Izquierdo, Chenye Li, Edward Terry  
2014 – 2015 (2): Xiaolin Shen, Alkeos Tsokos  
2013 – 2014 (2): Kavya Jagan, Halil Halil  
2012 – 2013 (1): Jiancheng Chen  
2011 – 2012 (1): Yi Feng

### **BSc project supervision**

2022 – 2023 (2): Riccardo Romio, Shaun Yap  
2021 – 2022 (1): Ákos Szepesi  
2019 – 2020 (2): Ben Barlow, Jake Pagden  
2017 – 2018 (1): Robin Hornak (best final year project in the dept of Statistical Science)  
2015 – 2016 (1): Angus Chiu  
2014 – 2015 (2): Yijie Hu, Tongjin Zhang  
2013 – 2014 (3): Ian Lim, Yaqiao Zhang, Yijia Zhang  
2012 – 2013 (3): Anyi Zou, Rong Tu, Assiya Iskaliyeva  
2011 – 2012 (1): Martin Huber