

# Dr 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; scientific software development; applications in sports science, earthquake engineering and finance

## 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**

## EMPLOYMENT HISTORY AND AFFILIATIONS

01/2018 – present **Reader in Data Science**, Department of Statistics, **University of Warwick**  
01/2018 – present **Honorary Reader in Statistics**, Department of Statistical Science, **University College London**  
09/2016 – present **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**

## PROFESSIONAL SERVICE

### Editorial responsibilities and refereeing activity

02/2018 – present **Associate Editor** for **Biometrika**  
10/2011 – present **Associate Editor** for the **Journal of Statistical Software**  
10/2013 – 12/2019 **Associate Editor** for **Statistics and Computing**  
09/2007 – present **Referee** for **more than 20 journals**

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

#### Current

01/2021 – present Royal Statistical Society's Research Section (committee member)  
09/2017 – present Turing Interest Group on Data Science for Sports, Activity, and Well-being (founder, organizer)  
11/2016 – present Royal Statistical Society's Statistics in Sport Section (committee member)  
10/2007 – present Royal Statistical Society (fellow)

#### Past

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

08/2021 CO, SPC **Greek Stochastics  $\mu'$**  (Corfu, Greece)  
08/2019 CO, SPC **Greek Stochastics  $\lambda'$**  (Corfu, Greece)  
03/2018 O BayesComp 2018 invited session  
**Deterministic approximation methods and pseudo-likelihoods** (Barcelona, Spain)  
12/2018 CO, SPC **Greek Stochastics  $\kappa'$**  (Athens, Greece)  
07/2017 CO, SPC **Greek Stochastics  $\iota'$**  (Milos, Greece)  
06/2017 CO, SPC **3rd UCL Workshop on the theory of big data** (London, UK)  
01/2016 CO, SPC **2nd UCL Workshop on the theory of big data** (London, UK)

07/2016 CO, SPC **Greek Stochastics  $\theta'$**  (Tinos, Greece)  
 11/2015 CO, SPC Alan Turing Institute Scoping Workshop **Data Science for Data-rich Sports** (London, UK)  
 01/2015 CO, SPC **1st UCL Workshop on the theory of big data** (London, UK)  
 12/2014 O ERCIM 2014 invited session  
**Handling nuisance parameters** (Pisa, Italy)  
 09/2012 CO **Imperial-UCL Joint Statistics Symposium** (London, UK)  
 09/2011 CO, SPC **useR! 2011 Conference** (Coventry, UK)  
 04/2008 CO **Workshop on Composite Likelihood Methods** (Coventry, UK)

### Organisation of other academic and enabling activities

06/2019 – present 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

09/2019 – present Course Director in Data Science, University of Warwick  
 09/2019 – 09/2020 Member of the Management Group, Department of Statistics, University of Warwick  
 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

1. Jeffreys-prior penalty, finiteness and shrinkage in binomial-response generalized linear models.  
Kosmidis I, Firth D (2021)  
**Biometrika**, **108**, 71–82
2. Two-way sparsity for time-varying networks with applications in genomics.  
Bartlett, T E, Kosmidis, I, Silva, R  
**Annals of Applied Statistics** (to appear). *Preprint at ArXiv e-prints (1802.08114)*
3. Mean and median bias reduction in generalized linear models.  
Kosmidis, I, Kenne Pagui E C, Sartori, N (2020)  
**Statistics and Computing**, **30**, 43–59
4. Location-adjusted Wald statistic for scalar parameters.  
Di Caterina, C, Kosmidis, I (2019)  
**Computational Statistics and Data Analysis**, **138**, 126–142
5. 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
6. Improving the accuracy of likelihood-based inference in meta-analysis and meta-regression.  
Kosmidis, I, Guolo, A, Varin, C (2017)  
**Biometrika**, **104**, 489–496
7. Model-based clustering using copulas with applications.  
Kosmidis, I, Karlis, D (2016).  
**Statistics & Computing**, **26**, 1079–1099
8. Bias in parametric estimation: reduction and useful side-effects.  
Kosmidis, I (2014).  
**WIRE Computational Statistics**, **6**, 185–196
9. Improved estimation in cumulative link models.  
Kosmidis, I (2014).  
**Journal of the Royal Statistical Society: Series B**, **76**, 169–196
10. Multinomial logit bias reduction via the Poisson log-linear model.

Kosmidis, I, Firth, D (2011).

**Biometrika**, **98**, 755–759

11. 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

12. A generic algorithm for reducing bias in parametric estimation.

Kosmidis, I, Firth, D (2010).

**Electronic Journal of Statistics**, **4**, 1097–1112

13. Bias reduction in exponential family non-linear models.

Kosmidis, I, Firth, D (2009).

**Biometrika**, **96**, 793–804

## Applications

14. 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**

15. 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** (to appear). Preprint at NeuroImage: Clinical

16. 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

17. 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

18. 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

19. 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

20. 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

21. Modelling rankings in R: the PlackettLuce package.

Turner H L, van Etten J, Firth D, Kosmidis I (2020)

**Computational Statistics** **35**, 1027–1057

22. 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>

23. Extended Beta Regression in R: Shaken, Stirred, Mixed, and Partitioned.

Grün, B, Kosmidis, I, Zeileis, A (2012).

**Journal of Statistical Software**, **48** (11)

24. 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; with no preprint, authors listed alphabetically)

25. Flexible marked spatio-temporal point processes with applications to event sequences from association football.

Narayanan S, Kosmidis I, Dellaportas P

*Preprint at ArXiv e-prints (2103.04647)*

26. 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)*

27. Voxel-wise and spatial modelling of binary lesion masks: A review and comparison of methods.

Kindalova P, Kosmidis I, Nichols, T E

*Preprint at bioRxiv e-prints (DOI: 10.1101/2021.01.11.426223)*

28. Parametric bootstrap inference for stratified models with high-dimensional nuisance specifications.  
Bellio, R, Kosmidis, I, Salvan, A, Sartori, N  
*Preprint at ArXiv e-prints (2010.16186)*
29. Empirical bias-reducing adjustments to estimating functions.  
Kosmidis, I, Lunardon, N  
*Preprint at ArXiv e-prints (2001.03786)*
30. Davidson-Luce model for multi-item choice with ties.  
Firth, D, Kosmidis, I, Turner, H L  
*Preprint at ArXiv e-prints (1909.07123)*
31. 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)*
32. 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)*
33. Supervised sampling for clustering large data sets.  
Kosmidis, I, Karlis, D  
*Preprint at CRiSM Working Paper Series (Paper 10-10)*
34. 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).*
35. Modelling bounded-responses in the presence of boundary observations.  
Kosmidis, I, Zeileis, A
36. Fixed-effects estimation of two-parameter logistic models.  
Bellio, R, Kosmidis, I, Sartori, N
37. Scalable computation for generalized linear and nonlinear models in the presence of a large nuisance factor.  
Firth, D, Kosmidis, I
38. The brglm2 R package: Reduced-bias inference for generalized linear models with dispersion parameters.  
Kosmidis, I

## SOFTWARE

### Stable

39. `betareg`: Beta regression (R; author)
40. `brglm`: Bias reduction for binomial-response generalized linear models (R; author, maintainer)
41. `brglm2`: Bias Reduction in Generalized Linear Models (R; author, maintainer)
42. `cranly`: Package directives and collaboration networks in CRAN (R; author, maintainer)
43. `detectseparation`: Detect and check for separation and infinite maximum likelihood estimates (R; author, maintainer)
44. `enrichwith`: Methods to enrich various R objects with extra components (R; author, maintainer)
45. `GEEBRA` General estimating equations with or without bias-reducing adjustments (Julia; author; maintainer)
46. `MEstimation` Methods for M-estimation of statistical models (Julia; author; maintainer)
47. `PlackettLuce`: Plackett-Luce models (R; author)
48. `profileModel`: Tools for profiling inference functions for various model classes (R; author, maintainer)
49. `semmar`: Methods for constructing and interacting with databases of presentations (R; author, maintainer)
50. `trackeR`: Infrastructure for running, cycling and swimming data from GPS-enabled tracking devices (R; author, maintainer)
51. `trackeRapp` Interface for the analysis of running, cycling and swimming data (R; author, maintainer)

### In early development phase

52. `brtobit`: Bias-reduced Tobit regression models (R; author)
53. `brquasi`: Bias reduction in quasi likelihood estimation (R; author, maintainer)
54. `brRasch`: Maximum likelihood and bias reduction for fixed-effects Rasch models (R; author, maintainer)
55. `coursehand`: Course handbook maintenance at the Department of Statistics, University of Warwick (R; author, maintainer)
56. `GoldenCheetahOpenData`: R API and Local Database Management for the GoldenCheetah OpenData Project (R; author, maintainer)
57. `waldi`: 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

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

02/2015 IS School of Mathematical Sciences, **Queen Mary University of London**, UK  
10/2014 IS School of Mathematics, Statistics and Actuarial Science, **University of Kent**, UK  
06/2014 IS, RV Informatics and Statistics, **Ca' Foscari University**, Italy  
11/2013 IS Department of Statistics, **LSE**, UK  
10/2013 IS Department of Mathematics, **Imperial College London**, UK  
05/2013 IS Department of Statistics, **University of Oxford**, UK  
04/2013 IS, RV Department of Statistics, **Athens University of Economics and Business**, Greece  
01/2013 IS, RV School of Computing Sciences, **University of East Anglia**  
03/2013 ID **International Workshop on Recent Advances in Statistical Inference**, Padova, Italy  
11/2012 IS Department of Statistics, **University of Vienna**, Austria  
11/2012 IS School of Mathematics and Statistics, **Newcastle University**, UK  
05/2012 IS, RV Faculty of Economics and Statistics, **Universität Innsbruck**, Austria  
02/2012 IS **London School of Hygiene and Tropical Medicine**, UK  
08/2011 RV Department of Statistics, **Harvard University**, USA  
12/2010 IS School of Mathematics, **University of Southampton**, UK  
11/2010 IS, RV Department of Economics, **Universitat Pompeu Fabra**, Spain  
05/2010 IS School of Mathematical Sciences, **Queen Mary University of London**, UK  
05/2009 IS, RV Department of Statistics, **University of Padova**, Italy  
05/2006 IS, RV Department of Statistics, **Athens University of Economics and Business**, Greece

## CONTRIBUTIONS TO CONFERENCES, WORKSHOPS & PUBLIC EVENTS

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

## 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

Theory & Methods Challenge Fortnights The Alan Turing Institute	SE	PI	01/2019 –	funding for 2019-2020, 2020-2021
Trusted Digital Infrastructure for Identity Systems The Alan Turing Institute	RG	PI	10/2020 – 10/2021	£85.0K
Warwick Impact Fund Award University of Warwick	RG	PI	03/2018 – 03/2019	£11.0K
Turing Fellowship The Alan Turing Institute	RG	PI	01/2018 –	= 60% Warwick FTE
English Institute of Sport	RC	PI	02/2015 – 02/2017	£160.0K
English Institute of Sport and EPSRC	RS	PI	09/2015 – 01/2019	£69.5K
Turing Fellowship The Alan Turing Institute	RG	PI	09/2016 – 01/2018	= 40% UCL FTE
“Data science for data-rich sport” workshop The Alan Turing Institute	SE	CI	11/2015	£14.0K
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

### Generalized linear models with large data

U University of Warwick Coventry, UK Term 2 2017-2018; 2018-2019

### Scalable regression: old tricks, new era

P The Alan Turing Institute London, UK 05/2018

### 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

### Further modelling with applications in health research: Proportional odds models

U, G University College London London, UK Term 2 2013–2015; 2014–2015

### 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

### Introduction to significance tests

G University College London London, UK Term 1 2011–2012; 2012–2013; 2013–2014; 2015–2016

### Introduction to practical statistics

U University College London London, UK Term 2 2010–2011

**Advanced topics in statistics: asymptotic statistics**

U, G University of Warwick Coventry, UK Term 1 2009–2010

## COMPUTING SKILLS & LANGUAGES

Programming languages (in order of usage) R, Julia, Python, Mathematica, C  
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

Zhenzheng Hu	joint supervisor	started 10/2017
Petya Kindalova	joint supervisor	started 09/2016
Zhongzhen Wang	joint supervisor	started 09/2016
Asma Saleh	first supervisor	started 09/2015

### Completed PhD students

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		
Stylios 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

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 project supervision

2020 – 2021 (2): Mingcong Chen, Jack Osmond

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**

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