Academic Activities—Charlotte M. Jones-Todd

Invited Talks

University of Lisbon, Portugal

The role of random fields in modelling spatiotemporal point patterns International Conference on Advances in Interdisciplinary Statistics and Combinato The University of North Carolina at Greensboro (via Zoom)	October 8th 2021 rics,
Making sense of patterns and connecting the dots in Area Σ I Faculty of Science International Open Day, University of Auckland, NZ	August 31st 2021
Modelling latent phenomena in point referenced data Department of Mathematics & Statistics, Australian National University (via Zoom	June 24th 2021
Point patterns in a point pattern world Research Showcase, School of Biological Sciences, University of Auckland, NZ	November 17th 2020
Getting to the point of log-Gaussian Cox processes Department of Mathematics & Statistics, University of Glasgow (via Zoom)	October 24th 2020
Me, myself, and R R-Ladies, Auckland, NZ	July 21st 2020
A time to kill: Great British serial killers Royal Statistical Society Conference, Glasgow, Scotland	September 5th 2017
Why spatial models are useful in ecology (understanding the mechanics of dots) Statistische Woche, Hamburg, Germany	September 15th 2015
Easy on the eyes: A spatio-temporal analysis of eye movement Royal Statistical Society Conference, Exeter, UK	September 9th 2015
INLA & SPDEs: Using latent Gaussian models to infer the spatial struct inherent in point patterns University of Lisbon, Portugal	ture April 1st 2015
Using INLA to fit complex spatial models to ecological data	April 1st 2015

Other Conference Talks, Seminars, and Presentations

Systematic effects and latent phenomena in point referenced data virtual Australia and New Zealand Statistical Conference (vANZSC)	July 5th 2021
Modelling point referenced data virtual National Centre for Statistical Ecology (vNCSE)	June 17th 2021
A discrete-space continuous-time model for marine mammal exposure to Navy sonar New Zealand Statistical Association (NZSA) conference, Auckland, NZ	November 24th 2020
Modelling systematic effects and latent phenomena in point referenced data Statistical ecology group, Department of Statistics, University of Auckland, NZ	November 17th 2020
Marine mammal exposure to Navy sonar: a continuous-time discrete-space model virtual International Statistical Ecology Conference (vISEC)	June 26th 2020
Animating statistical theory satRdays, Auckland, NZ	February 22nd 2020
Modelling systematic effects and latent phenomena in point referenced data School of Biological Scienes, University of Auckland, NZ	December 6th 2019
Marine mammal exposure to Navy sonar: a continuous-time discrete-space model Statistics in Ecology and Environmental Monitoring (SEEM) Conference, Wellington	December 2nd 2019 n, NZ
Shared latent fields for mark-dependence in a log-Gaussian Cox process Australasian Applied Statistics Conference (AASC), Rotorua, NZ	December 4th 2018
Shared latent fields for mark-dependence in a log-Gaussian Cox process International Statistical Ecology Conference (ISEC), St Andrews, Scotland	July 4th 2018
Spatial modelling (INLA and some other stuff) NIWA, Wellington, NZ	March 16th 2018
How spatial modelling works NIWA, Hamilton, NZ	February 20th 2018
Modelling spatio-temporal data CREEM, University of St Andrews, Scotland	September 21st 2016
Modelling unusual spatial structures: An application to colorectal cancer University of Cape Town, South Africa	data July 25th 2016
A spatio-temporal marked point process model International Statistical Ecology Conference (ISEC), Seattle, USA	July 1st 2016
A spatio-temporal multi-species model NCSE summer meeting, Falmouth, UK	June 29th 2015
Terrorism in space and time Spatial Statistics: Emerging Patterns, Avignon, France	June 12th 2015
Spatio-temporal modelling Geo-Environmental Modelling Symposium, University of St Andrews, Scotland	April 30th 2015

Spatial modelling: Its use in predictive policing Workshop on Crime Pattern Analysis and Predictive Policing, Dundee, Scotland	April 28th 2015
INLA & SPDEs: Using latent Gaussian models to infer the spatial structure inherent in point patterns University of Lisbon, Portugal	April 1st 2015
Using latent Gaussian models to infer the spatial structure inherent in point patterns CREEM, University of St Andrews, Scotland	January 1st 2015
Spatial / spatio-temporal modelling CREEM, University of St Andrews, Scotland	August 29th 2014
The use of spatio-temporal models in intelligence-led policing 37th Research Students' Conference in Probability and Statistics, Nottingham, UK	April 30th 2014
Fitting a spatial model to Atlantic salmon fry abundance data, using integrated nested Laplace approximation CREEM, University of St Andrews, Scotland	August 2013
Posters	
A Bayesian approach to modelling fine-scale spatial dynamics of non-state	

A Bayesian approach to modelling fine-scale spatial dynamics of non-state terrorism: world study, 2002-2013 International Society for Bayesian Analysis (ISBA) conference	June 13th 2016
Did "Operation Iraqi Freedom" work? (A joint marked point process modelling approach) Challenges and Perspectives in Modelling the Spatial Dynamics of Conflict and Terrorism, University of St Andrews, Scotland	December 3rd 2015
Where did all the points go? Spatial Statistics: Emerging Patterns, Avignon, France	June 9th–12th 2015
The use of spatio-temporal ecological models in predictive policing International Statistical Ecology Conference (ISEC), Montpellier, France	July 1st-4th 2014
Preventing crime through spatial modelling Scottish Institute for Policing Research Meeting, Edinburgh, Scotland	November 13th 2013

$Other\ Conferences/Workshops\ Attended$

The International Association for Statistical Education (IASE) Virtual Satellite Conference	August 30th–September 4th 2021
What Are The Odds? An Interactive Workshop in Sports Modelling, Exeter, UK	July 7th–8th 2016
Flexible Programming with BUGS Models (NIMBLE), Seattle, USA	June 27th 2016
Ecological Survey Spatial Modelling (ESSMod), St Andrews, Scotland	March 21st-22nd 2016
Software Carpentry, St Andrews, Scotland	June 18th–19th 2015

Teaching

Teaching at the University of Auckland

BIOSCI738 - Advanced Biological Data Analysis University of Auckland.	2021
BIOSCI220 - Quantitative Biology University of Auckland.	2021
BIOSCI220 - Quantitative Biology University of Auckland.	2020
STATS210 - Statistical Theory Southwest University (SWU), Chongqing, China.	2019
Tutoring at the University of St Andrews	
Centre for Academic, Professional and Organisational Development (CAPOD) Course tutor - using R for statistics	2015-2016
Centre for Academic, Professional and Organisational Development (CAPOD) mathematics and statistics support	2013-2016
MT1007 - Statistics in Practice	2014
MT2004 - Statistics	2014
MT1002 - Mathematics	2014
MT5753 - Statistical Modelling	2013
MT1001 - Introductory Mathematics	2013
MT1008 - Mathematical Information Technology	2013

Workshops	
Instructor NIWA, Hamilton, NZ	rember–December 2018
Keep going with Git Instructor NIWA, Hamilton, NZ	September 6th 2018
Make your R code shiny Instructor NIWA, Hamilton, NZ	May 10th 2018
Get going with Git Instructor NIWA, Hamilton, NZ	March 15th 2018
Introductory statistics course Tutor The Namibia University of Science and Technology, Namibia	August 2nd–5th 2016
Statistics for spatio-temporal data: INLA and SECR Instructor & Demonstrator Stellenbosch University, South Africa	July 27th 2016
Challenges and perspectives in modelling the spatial dynamics of conflict and terrorism Presenter University of St Andrews, Scotland	December 3rd 2015
Using INLA to fit complex spatial models to ecological data Instructor University of Lisbon, Portugal	April 1st 2015
Minicourse: The SPDE approach flexible spatial modelling in practice Instructor CREEM University of St Andrews, Scotland	Dec 3rd 2014
Using the integrated nested Laplace approximation approach to fit complex ecological models Demonstrator International Statistical Ecology Conference (ISEC), Montpellier, France	June 28th 2014
Spatial modelling with INLA Demonstrator CREEM University of St Andrews, Scotland	June 2nd–4th 2014

Other

Centre for Academic, Professional and Organisational Development (CAPOD) Dissertation support	2014-2015
Student Support worker Note-taker and examination scribe/reader	2014-2016
Centre for Academic, Professional and Organisational Development (CAPOD) Redesign of statistical support website	2013
School of Mathematics and Statistics Undergraduate module marking	2013-2016