Academic Activities—Charlotte M. Jones-Todd

Invited Talks

From cats to stats New Zealand Mathematics and Statistics Postgraduate Conference, Wellington, NZ	December 1st 2023
Where the whales sing Statistics Teacher's Day, University of Auckland, NZ	December 3rd 2022
Modelling spatiotemporal point patterns: a new era of point process models New Zealand Statistical Association Conference, Auckland, NZ	November 22nd 2022
Where the whales sing Guest lecture TFCSTATS, University of Auckland, NZ	August 10th 2022
The role of random fields in modelling spatiotemporal point patterns International Conference on Advances in Interdisciplinary Statistics and Combinator The University of North Carolina at Greensboro (via Zoom)	October 8th 2021 ics,
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	ure April 1st 2015
Using INLA to fit complex spatial models to ecological data University of Lisbon, Portugal	April 1st 2015

Other Conference Talks, Seminars, and Presentations

Self-exciting point process models in ecology International Biometric Society Australasian Region conference, Bay of Islands, NZ	November 29th 2023
A new era of point process models Department of Mathematics & Statistics, University of Glasgow, Scotland	August 4th 2023
Self-exciting point process models CREEM, University of St Andrews, Scotland	July 26th 2023
The R package stelfi Spatial Statistics, Denver, USA	July 19th 2023
Self-exciting point process models and their use in ecology Spatial Statistics Group, University of Glasgow, Scotland	July 4th 2023
ChatGPT in the classroom School of Biological Science, University of Auckland, Auckland, NZ	May 22nd 2023
The R package stelfi International Statistical Ecology Conference (ISEC), South Africa	June 27th 2022
Modelling point referenced data virtual National Centre for Statistical Ecology (vNCSE)	June 17th 2021
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 , 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) March 16th 2018 NIWA, Wellington, NZ How spatial modelling works February 20th 2018 NIWA, Hamilton, NZ Modelling spatio-temporal data September 21st 2016 CREEM, University of St Andrews, Scotland Modelling unusual spatial structures: An application to colorectal cancer data July 25th 2016 University of Cape Town, South Africa A spatio-temporal marked point process model July 1st 2016 International Statistical Ecology Conference (ISEC), Seattle, USA June 29th 2015 A spatio-temporal multi-species model NCSE summer meeting, Falmouth, UK Terrorism in space and time June 12th 2015 Spatial Statistics: Emerging Patterns, Avignon, France Spatio-temporal modelling April 30th 2015 Geo-Environmental Modelling Symposium, University of St Andrews, Scotland Spatial modelling: Its use in predictive policing April 28th 2015 Workshop on Crime Pattern Analysis and Predictive Policing, Dundee, Scotland INLA & SPDEs: Using latent Gaussian models to infer the spatial structure inherent in point patterns April 1st 2015 University of Lisbon, Portugal Using latent Gaussian models to infer the spatial structure inherent in point patterns January 1st 2015 CREEM, University of St Andrews, Scotland Spatial / spatio-temporal modelling August 29th 2014 CREEM, University of St Andrews, Scotland The use of spatio-temporal models in intelligence-led policing April 30th 2014 37th Research Students' Conference in Probability and Statistics, Nottingham, UK Fitting a spatial model to Atlantic salmon fry abundance data, using integrated nested Laplace approximation August 2013 CREEM, University of St Andrews, Scotland

Posters

A Bayesian approach to modelling fine-scale spatial dynamics of non-state terrorism: world study, 2002-2013

June 13th 2016

Did "Operation Iraqi Freedom" work?

(A joint marked point process modelling approach)

December 3rd 2015

Challenges and Perspectives in Modelling the Spatial Dynamics of Conflict and Terrorism, University of St Andrews, Scotland

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Where did all the points go?

June 9th-12th 2015

Spatial Statistics: Emerging Patterns, Avignon, France

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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

November 13th 2013

Scottish Institute for Policing Research Meeting, Edinburgh, Scotland

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

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Flexible Programming with BUGS Models (NIMBLE), Seattle, USA

June 27th 2016

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Ecological Survey Spatial Modelling (ESSMod), St Andrews, Scotland March 21st-22nd 2016

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Software Carpentry, St Andrews, Scotland

June 18th–19th 2015

Teaching

Teaching at the University of Auckland

BIOSCI738 - Advanced Biological Data Analysis University of Auckland.	2021–2022
BIOSCI220 - Quantitative Biology University of Auckland.	2020-2022
STATS210 - Statistical Theory Southwest University (SWU), Chongqing, China.	2019
Other teaching	
Spatial Statistics - Australian Mathematical Sciences Institute (AMSI) University of Melbourne.	2023
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