Academic Activities—Charlotte M. Jones-Todd

Invited Conference Talks and Meetings

Point patterns in a point pattern world

November 17th 2020

Research Showcase, School of Biological Sciences, University of Auckland, NZ

Me, myself, and R

July 21st 2020

R-Ladies, Auckland, NZ

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A time to kill: Great British serial killers September 5th 2017

Royal Statistical Society Conference, Glasgow, Scotland

Why spatial models are useful in ecology (understanding the

mechanics of dots)
September 15th 2015

Statistische Woche, Hamburg, Germany

Easy on the eyes: A spatio-temporal analysis of eye movement

September 9th 2015

Royal Statistical Society Conference, Exeter, UK

INLA & SPDEs: Using latent Gaussian models to infer the spatial structure

inherent in point patterns April 1st 2015

University of Lisbon, Portugal

Using INLA to fit complex spatial models to ecological data

April 1st 2015

University of Lisbon, Portugal

Other Conference Talks, Seminars, and Presentations

A discrete-space continuous-time model for marine mammal

exposure to Navy sonar November 24th 2020

New Zealand Statistical Association (NZSA) conference, Auckland, NZ

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Modelling systematic effects and latent phenomena

in point referenced data

November 17th 2020

Statistical ecology group, Department of Statistics, University of Auckland, NZ

Getting to the point of log-Gaussian Cox processes

October 24th 2020

Department of Mathematics & Statistics, University of Glasgow (via Zoom)

Marine mammal exposure to Navy sonar: a continuous-time

discrete-space model June 26th 2020

virtual International Statistical Ecology Conference (vISEC)

Animating statistical theory February 22nd 2020

satRdays, Auckland, NZ

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Modelling systematic effects and latent phenomena

in point referenced data December 6th 2019

School of Biological Scienes, University of Auckland, NZ

Marine mammal exposure to Navy sonar: a continuous-time

discrete-space model December 2nd 2019

Statistics in Ecology and Environmental Monitoring (SEEM) Conference, Wellington, NZ

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Shared latent fields for mark-dependence in a log-Gaussian Cox process December 4th 2018

Australasian Applied Statistics Conference (AASC), Rotorua, NZ

Shared latent fields for mark-dependence in a log-Gaussian Cox process July 4th 2018 International Statistical Ecology Conference (ISEC), St Andrews, Scotland Spatial modelling (INLA and some other stuff) March 16th 2018 NIWA, Wellington, NZ February 20th 2018 How spatial modelling works 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 July 1st 2016 A spatio-temporal marked point process model International Statistical Ecology Conference (ISEC), Seattle, USA A spatio-temporal multi-species model June 29th 2015 NCSE summer meeting, Falmouth, UK June 12th 2015 Terrorism in space and time Spatial Statistics: Emerging Patterns, Avignon, France Spatio-temporal modelling April 30th 2015 Geo-Environmental Modelling Symposium, University of St Andrews, Scotland April 28th 2015Spatial modelling: Its use in predictive policing Workshop on Crime Pattern Analysis and Predictive Policing, Dundee, Scotland INLA & SPDEs: Using latent Gaussian models to infer the spatial structure April 1st 2015 inherent in point patterns University of Lisbon, Portugal Using latent Gaussian models to infer the spatial structure inherent January 1st 2015 in point patterns 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 International Society for Bayesian Analysis (ISBA) conference

June 13th 2016

July 1st-4th 2014

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

The use of spatio-temporal ecological models in predictive policing

International Statistical Ecology Conference (ISEC), Montpellier, France

Preventing crime through spatial modelling November 13th 2013

Scottish Institute for Policing Research Meeting, Edinburgh, Scotland

Workshops Attended

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

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
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