

Academic Activities—Charlotte M. Jones-Todd

Invited Conference Talks and Meetings

A time to kill: Great British serial killers <i>Royal Statistical Society Conference, Glasgow, Scotland</i>	September 5th 2017
Why spatial models are useful in ecology (understanding the mechanics of dots) <i>Statistische Woche, Hamburg, Germany</i>	September 15th 2015
Easy on the eyes: A spatio-temporal analysis of eye movement <i>Royal Statistical Society Conference, Exeter, UK</i>	September 9th 2015
INLA & SPDEs: Using latent Gaussian models to infer the spatial structure inherent in point patterns <i>University of Lisbon, Portugal</i>	April 1st 2015
Using INLA to fit complex spatial models to ecological data <i>University of Lisbon, Portugal</i>	April 1st 2015

Other Conference Talks, Seminars, and Presentations

Animating statistical theory <i>satRdays, Auckland, NZ</i>	February 22nd 2020
Modelling systematic effects and latent phenomena in point referenced data <i>School of Biological Sciences, University of Auckland, NZ</i>	December 6th 2019
Marine mammal exposure to Navy sonar: a continuous-time discrete-space model <i>Statistics in Ecology and Environmental Monitoring (SEEM) Conference, Wellington, NZ</i>	December 2nd 2019
Shared latent fields for mark-dependence in a log-Gaussian Cox process <i>Australasian Applied Statistics Conference (AASC), Rotorua, NZ</i>	December 4th 2018
Shared latent fields for mark-dependence in a log-Gaussian Cox process <i>International Statistical Ecology Conference (ISEC), St Andrews, Scotland</i>	July 4th 2018
Spatial modelling (INLA and some other stuff) <i>NIWA, Wellington, NZ</i>	March 16th 2018

How spatial modelling works <i>NIWA, Hamilton, NZ</i>	February 20th 2018
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Modelling spatio-temporal data <i>CREEM, University of St Andrews, Scotland</i>	September 21st 2016
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Modelling unusual spatial structures: An application to colorectal cancer data <i>University of Cape Town, South Africa</i>	July 25th 2016
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A spatio-temporal marked point process model <i>International Statistical Ecology Conference (ISEC), Seattle, USA</i>	July 1st 2016
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A spatio-temporal multi-species model <i>NCSE summer meeting, Falmouth, UK</i>	June 29th 2015
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Terrorism in space and time <i>Spatial Statistics: Emerging Patterns, Avignon, France</i>	June 12th 2015
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Spatio-temporal modelling <i>Geo-Environmental Modelling Symposium, University of St Andrews, Scotland</i>	April 30th 2015
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Spatial modelling: Its use in predictive policing <i>Workshop on Crime Pattern Analysis and Predictive Policing, Dundee, Scotland</i>	April 28th 2015
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INLA & SPDEs: Using latent Gaussian models to infer the spatial structure inherent in point patterns <i>University of Lisbon, Portugal</i>	April 1st 2015
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Using latent Gaussian models to infer the spatial structure inherent in point patterns <i>CREEM, University of St Andrews, Scotland</i>	January 1st 2015
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Spatial / spatio-temporal modelling <i>CREEM, University of St Andrews, Scotland</i>	August 29th 2014
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The use of spatio-temporal models in intelligence-led policing <i>37th Research Students' Conference in Probability and Statistics, Nottingham, UK</i>	April 30th 2014
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Fitting a spatial model to Atlantic salmon fry abundance data, using integrated nested Laplace approximation <i>CREEM, University of St Andrews, Scotland</i>	August 2013

Posters

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

June 13th 2016

International Society for Bayesian Analysis (ISBA) conference

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Did “Operation Iraqi Freedom” work?

December 3rd 2015

(A joint marked point process modelling approach)

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

July 1st–4th 2014

International Statistical Ecology Conference (ISEC), Montpellier, France

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Preventing crime through spatial modelling

November 13th 2013

Scottish Institute for Policing Research Meeting, Edinburgh, Scotland

Workshops Attended

What Are The Odds?

July 7th–8th 2016

An Interactive Workshop in Sports Modelling, Exeter, UK

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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

BIOSCI220 - Quantitative Biology 2020
University of Auckland.

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STATS210 - Statistical Theory 2019
Southwest University (SWU), Chongqing, China.

Tutoring at the University of St Andrews

Centre for Academic, Professional and Organisational Development
(CAPOD) **Course tutor - using R for statistics** 2015–2016

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Centre for Academic, Professional and Organisational Development
(CAPOD) **mathematics and statistics support** 2013–2016

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MT1007 - Statistics in Practice 2014

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MT2004 - Statistics 2014

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MT1002 - Mathematics 2014

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MT5753 - Statistical Modelling 2013

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MT1001 - Introductory Mathematics 2013

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MT1008 - Mathematical Information Technology 2013

Workshops

Adventures in R

March 21st 2020

Instructor

Women in Data Science, Auckland, NZ

Statistics and R

November–December 2018

Instructor

NIWA, Hamilton, NZ

Keep going with Git

September 6th 2018

Instructor

NIWA, Hamilton, NZ

Make your R code shiny

May 10th 2018

Instructor

NIWA, Hamilton, NZ

Get going with Git

March 15th 2018

Instructor

NIWA, Hamilton, NZ

Introductory statistics course

August 2nd–5th 2016

Tutor

The Namibia University of Science and Technology, Namibia

Statistics for spatio-temporal data: INLA and SECR

July 27th 2016

Instructor & Demonstrator

Stellenbosch University, South Africa

Challenges and perspectives in modelling the spatial dynamics of conflict and terrorism

December 3rd 2015

Presenter

University of St Andrews, Scotland

Using INLA to fit complex spatial models to ecological data

April 1st 2015

Instructor

University of Lisbon, Portugal

Minicourse: The SPDE approach flexible spatial modelling in practice

Dec 3rd 2014

Instructor

CREEM University of St Andrews, Scotland

Using the integrated nested Laplace approximation approach to fit complex ecological models

June 28th 2014

Demonstrator

International Statistical Ecology Conference (ISEC), Montpellier, France

Spatial modelling with INLA

June 2nd–4th 2014

Demonstrator

CREEM University of St Andrews, Scotland

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

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School of Mathematics and Statistics
Undergraduate module marking

2013–2016