Academic Activities—Charlotte M. Jones-Todd

Invited Conference Talks and Meetings

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

**Marine mammal exposure to Navy sonar: a continuous-time
discrete-space model**   July 26th 2020
virtual International Statistical Ecology Conference (vISEC)
....

Animating statistical theory   February 22nd 2020
satRdays, Auckland, NZ
....

**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
....

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

How spatial modelling works
NIWA, Hamilton, NZ

February 20th 2018

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Modelling spatio-temporal data
CREEM, University of St Andrews, Scotland

September 21st 2016

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Modelling unusual spatial structures: An application to colorectal cancer data
University of Cape Town, South Africa

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

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Spatio-temporal modelling
Geo-Environmental Modelling Symposium, University of St Andrews, Scotland

April 30th 2015

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Spatial modelling: Its use in predictive policing
Workshop on Crime Pattern Analysis and Predictive Policing, Dundee, Scotland

April 28th 2015

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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 terrorism: world study, 2002-2013   June 13th 2016
International Society for Bayesian Analysis (ISBA) conference

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

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   July 1st–4th 2014
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

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

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
....

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

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