Academic Activities—Charlotte Moragh Jones-Todd

Invited Talks and Meetings

A time to kill: Great British serial killers   September 2017
Royal Statistical Society Conference 2017, Glasgow
Invitation due to runner-up prize in the 2017 RSS Excellence in Early Career Writing Competition

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**Why spatial models are useful in ecology (understanding the
mechanics of dots)**   September 15th 2015
Young Statisticians Session
Statistische Woche 2015, Hamburg

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Easy on the eyes: A spatio-temporal analysis of eye movement   September 9th 2015
RSS Challenge Winners Session
Royal Statistical Society Conference 2015, Exeter

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**INLA & SPDEs - Using latent Gaussian models to infer the spatial structure
inherent in point patterns**   April 1st 2015
University of Lisbon

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Using INLA to fit complex spatial models to ecological data   April 1st 2015
University of Lisbon

Other Talks

Shared latent fields for mark-dependence in a log-Gaussian Cox process   July 4th 2018
International Statistical Ecology Conference (ISEC), St Andrews

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Spatial Modelling (INLA and some other stuff)   March 16th 2018
NIWA, Wellington

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What I do...   February 20th 2018
NIWA, Hamilton

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Modelling spatio-temporal data   September 21st 2016
CREEM University of St Andrews

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Modelling unusual spatial structures: An application to colorectal cancer data   July 25th 2016
University of Cape Town

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A spatio-temporal marked point process model   July 1st 2016
International Statistical Ecology Conference (ISEC), Seattle

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A spatio-temporal multi-species model   June 29th 2015
NCSE summer meeting, Falmouth

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Terrorism in space and time   June 12th 2015
Spatial Statistics: Emerging Patterns, Avignon

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Spatio-temporal modelling   April 30th 2015
Geo-Environmental Modelling Symposium, University of St Andrews

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Spatial modelling: Its use in predictive policing   April 28th 2015
Workshop on Crime Pattern Analysis and Predictive Policing, Dundee

INLA & SPDEs: Using latent Gaussian models to infer the spatial structure inherent in point patterns *April 1st 2015*
University of Lisbon

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Using latent Gaussian models to infer the spatial structure inherent in point patterns *January 1st 2015*
CREEM University of St Andrews

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Spatial / spatio-temporal modelling *August 29th 2014*
CREEM University of St Andrews

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The use of spatio-temporal models in intelligence-led policing *April 30th 2014*
37th Research Students' Conference in Probability and Statistics, Nottingham

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Fitting a spatial model to Atlantic salmon fry abundance data, using integrated nested Laplace approximation *August 2013*
CREEM University of St Andrews

Workshops Taught

Keep going with Git *September 6th 2018*
Instructor
NIWA, Hamilton

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Make your R code shiny... *May 10th 2018*
Instructor
NIWA, Hamilton

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Get going with Git *March 15th 2018*
Instructor
NIWA, Hamilton

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Introductory statistics course *August 2nd - 5th 2016*
Tutor
The Namibia University of Science and Technology

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Statistics for spatial-temporal data: INLA and SECR *July 27th 2016*
Instructor & Demonstrator
Stellenbosch University

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Challenges and perspectives in modelling the spatial dynamics of conflict and terrorism *December 3rd 2015*
Presenter
University of St Andrews

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Using INLA to fit complex spatial models to ecological data *April 1st 2015*
Instructor
University of Lisbon

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Minicourse: The SPDE approach flexible spatial modelling in practice *Dec 3rd 2014*
Instructor
CREEM University of St Andrews

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Using the integrated nested Laplace approximation approach to fit complex ecological models *June 28th 2014*
Demonstrator
International Statistical Ecology Conference (ISEC), Montpellier

Spatial modelling with INLA workshop   June 2nd – 4th 2014
Demonstrator
CREEM University of St Andrews

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 , 3rd author

**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*, St Andrews

Where did all the points go?   June 9th - 12th 2015
Spatial Statistics: Emerging Patterns, Avignon

The use of spatio-temporal ecological models in predictive policing   July 1st - 4th 2014
International Statistical Ecology Conference (ISEC), Montpellier

Preventing crime through spatial modelling   November 13th 2013
Scottish Institute for Policing Research (SIPR) *Meeting*, Edinburgh

Workshops Attended

What Are The Odds? An Interactive Workshop in Sports Modelling (ATASS), Exeter   July 7th - 8th 2016

Point Processes (ISEC), Seattle   July 2nd - 3rd 2016

Flexible Programming with BUGS Models (NIMBLE) (ISEC), Seattle   June 27th 2016

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

Software Carpentry, St Andrews   June 18th - 19th 2015

Teaching & Tutoring

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

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) **maths and statistics support** 2013-2016

Centre for Academic, Professional and Organisational Development
(CAPOD) **redesign of statistical support website** 2013

School of Mathematics and Statistics
Undergraduate module marking 2013-2016

MT1007 - Statistics in Practice 2014

MT2004 - Statistics 2014

MT1002 - Mathematics 2014

MT5753 - Statistical Modelling 2013

MT1001 - Introductory Mathematics 2013

MT1008 - Mathematical Information Technology 2013