Academic Activities—Charlotte M. Jones-Todd

Invited Conference Talks and Meetings

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

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Why spatial models are useful in ecology (understanding the mechanics of dots) September 15th 2015

Statistische Woche, Hamburg, Germany

September 9th 2015Easy on the eyes: A spatio-temporal analysis of eye movement

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 June 26th 2020

virtual International Statistical Ecology Conference (vISEC)

Animating statistical theory February 22nd 2020

satRdays, Auckland, NZ

Modelling systematic effects and latent phenomena

December 6th 2019 in point referenced data

School of Biological Scienes, University of Auckland, NZ

Marine mammal exposure to Navy sonar: a continuous-time

December 2nd 2019 discrete-space model

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

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

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

March 16th 2018

Spatial modelling (INLA and some other stuff)

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 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 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 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

| BIOSCI220 - Quantitative Biology University of Auckland. | 2020 |
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| 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

Adventures in R March 21st 2020 Instructor Women in Data Science, Auckland, NZ November-December 2018 Statistics and R Instructor NIWA, Hamilton, NZ September 6th 2018 Keep going with Git Instructor NIWA, Hamilton, NZ May 10th 2018 Make your R code shiny Instructor NIWA, Hamilton, NZ Get going with Git March 15th 2018 Instructor NIWA, Hamilton, NZ August 2nd-5th 2016Introductory statistics course 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 December 3rd 2015 and terrorism 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 June 2nd-4th 2014 Spatial modelling with INLA Demonstrator CREEM University of St Andrews, Scotland Other Centre for Academic, Professional and Organisational Development (CAPOD) Dissertation support 2014 - 2015.....

2014-2016

2013

Student Support worker Note-taker and examination scribe/reader

Centre for Academic, Professional and Organisational Development

(CAPOD) Redesign of statistical support website

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School of Mathematics and Statistics ${f Undergraduate\ module\ marking}$

2013 – 2016