

Richard Glennie

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Education

PhD in Statistics 2014 – 2018
University of St Andrews
Thesis: *Incorporating Animal Movement with Distance Sampling and Spatial Capture-Recapture*

MMath (Hons) Mathematics (Fast Track) 2010 – 2014
University of St Andrews
1st Class
Royal Statistical Society accredited course
St Andrews GPA: 19.4

Employment

Research Fellow 2018 – Present
University of St Andrews

School coordinator for Academic Skills 2017 – 2018
University of St Andrews

Tutor and demonstrator 2014 – 2018
University of St Andrews
School of Mathematics and Statistics

Maths and Statistics Tutor 2014 – 2018
University of St Andrews
Centre for Academic, Professional and Organisational Development

Private tutor 2014 – 2016
Tutored High-School and College level students

Scholarships

Carnegie-Caledonian PhD scholarship 2014 – 2018
Full 3.5 year funding awarded

Carnegie vacation scholarship 2013
Undergraduate research internship at University of St Andrews

Summer Studentship 2012
Undergraduate studentship award by School of Mathematics and Statistics
University of St Andrews

Summer Studentship 2011
Undergraduate studentship award by School of Mathematics and Statistics

University of St Andrews

Robertson Trust scholarship

2010 – 2014

Undergraduate bursary

Awards

Highly commended student poster presentation

Jul 2017

EURING conference, Barcelona

Outstanding student oral presentation

Jul 2016

International Statistical Ecology Conference, Seattle

Duncan Medal

2014

Awarded to best senior honours dissertation

Royal Statistical Society Prize

2014

Awarded to best senior honours student on a programme accredited by the Royal Statistical Society

Duncan Prize

2013

Awarded for exceptional performance in Junior Honours

Tullis Medal

2012

Awarded for exceptional performance in 2nd year undergraduate

Margaret Stewart Prize

2011

Awarded for exceptional performance in 1st year undergraduate

Publications

Langrock, R., Kneib, T., **Glennie, R.**, & Michelot, T. (2017). Markov-switching generalized additive models. *Statistics and Computing*, 27(1), 259-270.

Glennie, R., Buckland, S. T., & Thomas, L. (2015). The effect of animal movement on line transect estimates of abundance. *PloS one*, 10(3), e0121333.

Submitted Papers

Glennie, R., Buckland, S. T., Langrock, R., Gerrodette, T., Ballance, L. T., Chivers, S. J., Scott, M.D., & Perrin, W. F. (2018). Incorporating animal movement into distance sampling. *Submitted to Journal of American Statistical Association*.

Glennie, R., Borchers, D. L., Murchie, M., Harmsen, B. J., & Foster, R. J. (2018). Open population maximum likelihood spatial capture-recapture. *Submitted to Biometrics*.

Book In Preparation

Borchers, D. L., Stevenson, B., Howe, E., Distiller, G., & **Glennie, R.** (2018). Spatial capture-recapture by maximum likelihood. *Springer*.

Software

Creator and Maintainer of R package: `openpopsr` Sep 2018
<https://github.com/r-glennie/openpopsr>

Creator and Maintainer of R package: `moveds` Sep 2019
<https://github.com/r-glennie/openpopsr>

Presentations

Integrating continuous-time animal movement with spatial capture-recapture Oct 2018
The 25th Wildlife Society Conference, Cleveland

Accounting for animal movement in distance sampling Aug 2018
Intermediate Distance Sampling Workshop, St Andrews

Continuous-time spatial capture-recapture with animal movement Jul 2018
International Statistical Ecology Conference, St Andrews

Encounters between animals and detectors in wildlife abundance surveys Feb 2018
Royal Statistical Society Merseyside Local Group, Liverpool

Accounting for animal movement in distance sampling Aug 2017
Intermediate Distance Sampling Workshop, St Andrews

Behaviour-switching animal movement with distance sampling Jul 2017
EURING conference, Barcelona

Incorporating animal movement with distance sampling and spatial capture-recapture Jun 2017
Summer meeting for the National Centre for Statistical Ecology, Canterbury

Counting animals in Statistical Ecology Nov 2016
St Andrews Mathematics Undergraduate Society, St Andrews

Modelling movement in continuous-time spatial capture-recapture Oct 2016
Seminar, Centre for Research into Ecological and Environmental Modelling, St Andrews

The effect of animal movement on distance sampling Aug 2016
Advanced Distance Sampling Workshop, St Andrews

Incorporating animal movement into distance sampling Jul 2016
International Statistical Ecology Conference, Seattle

Path integrals in Ecology Jan 2016
Mathematics and Statistics School Research Day, St Andrews

Encounters in Ecology Aug 2015
38th Research Students' Conference in Probability and Statistics

The effect of animal movement on line transect estimates of abundance Jul 2013
Summer meeting for the National Centre for Statistical Ecology, Canterbury

Teaching

Lecturer for School of Mathematics and Statistics, St Andrews
MT3832: Mathematical Programming 2017

Tutor for School of Mathematics and Statistics, St Andrews
MT4113: Computing in Statistics 2016, 2017
MT2508: Statistical Inference 2014, 2015, 2016
MT2504: Combinatorics and Probability 2014, 2016
MT1002: Mathematics 2015

Mathematics and Statistics Tutor 2014 – 2018
Centre for Academic, Professional, and Organisational Development, St Andrews

Workshop Demonstrator

Run by the Centre for Academic, Professional, and Organisational Development, St Andrews
in association with Biomathematics and Statistics Scotland

Applied Multivariate Statistics Apr 2017
Experimental Design Apr 2017
Mixed Models Mar 2017
Regression Feb 2017
Basic Statistics Jan 2017

Senior Honours Dissertation Co-Supervisor 2016
Supervised dissertation entitled *Estimating the survival of Jaguars in the Cockscomb Basin Wildlife Sanctuary, Belize*

Peer Reviewing

Performed peer reviews for the following journals (xN means N reviews completed):

Ecology x1
The Annals of Applied Statistics x2
Ecology and Evolution x2
Journal of Applied Statistics x2
Conservation Biology x1
Methods in Ecology and Evolution x2