CURRICULUM VITAE

Byron J.T. MORGAN

Date of CV: October 6, 2015

Career History

Positions held:

January 2014–September 2015  Emeritus Professor and Honorary Professorial Research Fellow, Kent
2009–2012                  Head of Statistics, Kent.
October 2005–September 2008 Director, NCSE.
January 2000, December 1997 Honorary Visiting Professor, Australian Defence Force Academy, Canberra.
& December 1996
February–March 1987        Honorary Visiting Professor, Royal Melbourne Institute of Technology, Melbourne.
1978                       Senior Lecturer in Statistics, Kent.
1972                       Lecturer in Statistics, Kent.
July–September 1968        Research Trainee, World Health Organisation,
                            Cancer Research Centre, Lyon, France.
Degrees and Awards:

- 2014: Elected Honorary Life Member of the International Biometric Society
- 2013: Elected as Fellow of the Learned Society of Wales
- 2002: Leverhulme Research Fellowship
- 2000: Elected as Academician of the Academy of Learned Societies for the Social Sciences (not taken up)
- 1985: Elected Member of the International Statistical Institute
- 1982: George W. Snedecor award for best publication in Biometry (paper marked *** below)
- 1972: PhD Cambridge.
- 1967: BSc (Mathematics) with 1st-class Honours, Imperial College, London.
- 1964–67: Open Scholarship at Imperial College.

Prizes of research students and postdocs:

Several research students and post-docs have won prizes of various kinds, including:

Emily Dennis (multiple, including runner up, Robert May prize, and The University of Kent Faculty of Sciences Prize for Postgraduate Research, 2015)
Nico Galvez (runner up, best student talk)
Gurutzeta Guillera-Arroita (multiple, including the RSPB Conservation Science award for an outstanding PhD thesis, 2015)
José Lahoz-Monfort (multiple)
Rachel McCrea (British and Irish Region of the International Biometric Society: best young researcher paper, and NERC fellowship)
Eleni Matechou (best student talk)
David Miller (best student talk)
Chen Yu (best student talk)
Publications

**BOOKS:**

2014 *Analysis of Capture-Recapture Data*
(with R. S. McCrea)

2014 *Modelling Population Dynamics: model formulation, fitting and assessment using state-space methods*

2010 *Bayesian Analysis for Population Ecology*
(with R. King, O. Gimenez and S. P. Brooks)

2008 Second edition of *Applied Stochastic Modelling*

(with E.E. Bassett, J.M. Brenner, I.T. Jolliffe, B. Jones and P.M. North)
ISBN 981-02-4293-X


**EDITIONS:**


PAPERS:

2015  
- Pseudo replication for integrated population models  
  *Advances in Statistical Analysis*, Invited revision  
  with P.T. Besbeas  
- A generalised abundance index for seasonal invertebrates  
  *Biometrics*, Invited revision  
  with E. B. Dennis, S. N. Freeman, D. B. Roy and T. Brereton  
- Renewal models for removal data  
  *Annals of Applied Statistics*, Invited revision  
  with E. Matechou, R.S. McCrea, D. Nash and R.A. Griffiths  
- Dynamic models for longitudinal butterfly data  
  with E. B. Dennis, S. N. Freeman, D. B. Roy and T. Brereton  
- Statistical ecology comes of age  
  *Biology Letters*, To appear. DOI: 10.1098/rsbl.2014.0698  
  with O. Gimenez et al.  
- Computational aspects of N-mixture models  
  with E. B. Dennis and M.S. Ridout
• A comparison of abundance estimates from extended batch-marking and Jolly-Seber type experiments
  *Ecology and Evolution*, 4, 210–218. Open Access,
  with L.L.E. Cowen, P.T. Besbeas and C.J. Schwarz

• Does your species have memory? Analysing capture-recapture data with memory models
  *Ecology and Evolution*, 4, 2124–2133. Open Access,
  with D.J. Cole, R. Choquet, O. Gimenez., McCrea, R.S. and Pradel, R.

• Parameter redundancy in capture-recapture-recovery models
  *Statistical Methodology*, 17, 17–29.
  with B. Hubbard and D. J. Cole.

• Exploring the consequences of reducing survey effort for detecting individual and temporal variation in survival
  with J. J. Lahoz-Monfort, M. P. Harris, S.N. Freeman and S. Wanless.

• Two-stage sequential Bayesian study design for species occupancy estimation
  *JABES*, 19, 278–291.
  with G. Guillera-Arroita and M.S. Ridout.

• Diagnostic goodness-of-fit tests for joint recapture and recovery models
  *JABES*, 19, 338–356.
  with R. S. McCrea and R. Pradel

• Goodness of fit of integrated population models using calibrated simulation
  with P. T. Besbeas.
2013 • How closely do measures of mitochondrial DNA control region diversity reflect recent trajectories of population decline in birds?
*Conservation Genetics, 14,* 1291–1296.
with H. Jackson and J.J. Groombridge.

• Estimating age-specific survival when age is unknown: open population capture-recapture models with age structure and heterogeneity.
with E. Matechou, S. Pledger, M. Efford and D.L. Thomson.

• Integrated analysis of capture-recapture-recovery data and counts of unmarked birds at stop-over sites,
*JABES,* 18, 1, 120–135.
with E. Matechou, S. Pledger, J.B. Collazo and J. E. Lyons.

• Breeding together: modelling synchrony in productivity in a seabird community,
*Ecology,* 94, 1, 3–10. (Selected for front cover of issue).
with J.J. Lahoz-Monfort, M.P. Harris, F. Daunt, S. Wanless and S.N. Freeman.

• Age-dependent mixture models for recovery data on animals marked at unknown age,
with R.S. McCrea and D.J. Cole.

• Ornithological data.
*Encyclopedia of Environmetrics, 2nd edition,*
with A. Viallefont. DOI 10.1002/9780470057339 va0017.

2012 • Conditional modelling of ring-recovery data

• Models for species-detection data collected along transects in the presence of abundance-induced heterogeneity and clustering in the detection process,
with G. Guillera-Arroita, M.S. Ridout and M. Linkie.
• Parameter redundancy in mark-recovery models,
  *Biometrical Journal*, **54**, 507–523
  with D.J. Cole, B. Hubbard and E.A. Catchpole.
• Kalman filter initialisation for integrated population modelling,
• A threshold model for heron productivity,
• Model comparison and assessment for multi-state capture-recapture models
  With R.S. McCrea and T. Bregnballe.
• Estimating survival and transition rates from aggregate sightings of animals,
  With A. Viallefont, R. McCrea and P. Besbeas.
  **2011**
• Multi-site mark-recapture model selection using score tests
• Individual heterogeneity in recapture probability and survival estimates in cheetah,
• Methods for exact perturbation analysis
  With D. Miller, M.S. Ridout, P. Carey and P. Rothery.
• A capture-recapture model for exploring multi-species synchrony in survival
  With J.J. Lahoz-Monfort, M.P. Harris, S. Wanless and S.N. Freeman.
• Kinetic models of guanidine hydrochloride-induced curing of the yeast [PSI+] prion,
• Individual differences in reproductive costs examined using multi-state methods,
• Species occupancy modelling for detection data collected along a transect,
  **2010**
• The parametric structure of models,
  With D.J. Cole and D.M. Titterington.
• A note on determining parameter redundancy in age-dependent tag return models
  for estimating fishing mortality, natural mortality and selectivity,
• Multi-site integrated population modelling
  \textit{JABES}, 15, 4, 539–561.
  With R.S. McCrea, O. Gimenez, P. Besbeas, T. Bregnballe, and J-D. Lebreton

• Parameter redundancy with covariates,

• Continuous covariates in mark-recapture-recovery analysis: A comparison of methods

• Design of occupancy studies with imperfect detection
  \textit{Methods in Ecology and Evolution}, 1, 2, 131–139.
  With G. Guillera-Arroita and M.S. Ridout.

• Expression of Neuregulin 4 splice variants in normal human tissues
  and prostate cancer and their effects on cell motility
  \textit{Endocrine-Related Cancer}, 18, 39–49.

2009 • The number and transmission of \([\text{PSI}^+]\) prion seeds (propagons) in the yeast
  \textit{Saccharomyces cerevisiae}
  With L.J. Byrne, D.J. Cole, B.S. Cox, M.S. Ridout and M.F. Tuite.

• Exploring individual quality in a wild population of red deer

• Estimating population size and hidden demographic parameters
  with state-space modelling.

• Estimating N: a robust approach to recapture heterogeneity.
  Modelling Demographic Processes in Marked Populations:
  With M.S. Ridout.

• An integrated analysis of multisite recruitment, mark-recapture-recovery and multisite
  census data.
  Modelling Demographic Processes in Marked Populations:
  With R.S. Borysiewicz, O. Gimenez, V. Hénaux, T. Bregnballe and J.-D. Lebreton.
• Weak identifiability in models for mark-recapture-recovery data.
Modelling Demographic Processes in Marked Populations:
With O. Gimenez and S.P. Brooks.

• WinBUGS for population ecologists: Bayesian modeling using Markov chain Monte Carlo.
Modelling Demographic Processes in Marked Populations:
With O. Gimenez, S. Bonner, R. King, R.A. Parker, S.P. Brooks,
L.E. Jamieson, V. Grosbois and L. Thomas.

• Completing the ecological jigsaw.
Modelling Demographic Processes in Marked Populations:
With P. Besbeas and R. Borysiewicz.

• Standardising terminology and notation for the
analysis of demographic processes in marked populations
Modelling Demographic Processes in Marked Populations:
With D.L. Thomson, M.J. Conroy, D.R. Anderson, K.P. Burnham,

• Survival at multi-population scales using mark-recapture data
*Ecology*, **90**, 10, 2922–2932. With V. Grosbois, M.P. Harris, T. Anker-Nilssen, R.H. McCleery,
D.N. Shaw and O. Gimenez.

2008
• A new method for analysing discrete life-history data with missing covariate values.
With E.A. Catchpole and G. Tavecchia.

• Improved estimation of the stable laws.
With P. Besbeas.
• A new mixture model for recapture heterogeneity.  
  With M.S. Ridout.

  With K.J. Palmer and M.S. Ridout.

• Identifying and diagnosing population declines: A Bayesian assessment of lapwings in the UK.  

2007

• The role of cell division in elimination of the $[PSI^+]$ prion of yeast by Guanidine Hydrochloride.  
  With L.J. Byrne, B.S. Cox, D.J. Cole, M.S. Ridout and M. F. Tuite.  
  *Proceedings of the National Academy of Sciences*, **104**, 11688–11693.

• Identification and characterisation of novel spliced variants of NRG4 in prostate cancer.  

• Negative score test statistic.  

• Population growth in Greater Snow Geese: a new modelling approach integrating demographic and census information.  
  With G. Gauthier, P. Besbeas and J.-D. Lebreton.  

• Approximations for expected generation number.  

• A note on simplifying likelihoods for site occupancy models.  

2006

• New approximations to the Malthusian parameter.  

• Semiparametric regression in capture-recapture modelling.  

• Cumulative costs of reproduction in female red deer.  
  With K. Moyes. T. Coulson, T.H. Clutton-Brock, A. Donald and S.J. Morris,  
• Factors influencing Soay sheep survival: a Bayesian analysis.

• New methods for including covariates in models for the survival of wild animals.

2005

• Models for strawberry inflorescence data.

• Stimulus-response studies.

• The potential of integrated population modelling.

2004

• Sexual dimorphism, survival and dispersal in red deer.

• A Bayesian approach to combining animal abundance and demographic data.
  With S.P. Brooks and R. King.  

• Estimating the number of prions in yeast cells.

• Efficient and robust estimation for the one-sided stable distribution of index 1/2.


• Methods for investigating parameter redundancy. With O. Gimenez, R. Choquet, E.A. Catchpole and A. Viallefont.  

• Integrated squared error estimation of normal mixtures.
2003

2002

2001
• Deficiency of parameter-redundant models (with E.A. Catchpole), *Biometrika*, 88, 2, 593-598.
2000

- Animal survival methodology (with S.P. Brooks and E.A. Catchpole).


- Bayesian animal survival estimation (with S.P. Brooks and E.A. Catchpole).


1999

- Modelling variability in the branching structure of strawberry inflorescences.

- Empirical transform estimation for indexed stochastic models (with Q. Yao).

- Modelling the survival of British lapwings *Vanellus vanellus* using weather covariates (with E.A. Catchpole, S.N. Freeman and W.J. Peach). *Bird Study, 46* (suppl.), 5-13.

1998


- Integrated recovery/recapture data analysis. *Biometrics, 54*, 1, 33-46 (with E.A. Catchpole, S.N. Freeman and M.P. Harris).

- Estimation in parameter-redundant models (with E.A. Catchpole and S.N. Freeman).
  *Biometrika, 85*, 462-468.
1997
• Score tests *The Ring*, **19**, 179-184 (with E.A. Catchpole and M. Boucher).
• Factors influencing the survival of Puffins (*Fratercula arctica*) at a North Sea colony over a 20-year period (with M.P. Harris, S.N. Freeman, C. Wernham and S. Wanless). *J.Avian Biology*, **28**, 287-295.

1996
• Model selection in ring-recovery models using score tests. *Biometrics*, **52**, 664-672 (with E.A. Catchpole).

1995

1994
•  A modelling strategy for recovery data from birds ringed as nestlings.  *Biometrics*, **48**, 1, 217-236 (with S.N. Freeman).
•  Extended models for Wadley’s problem.  *GLIM Newsletter* No. 18, 21-28 (with D.M. Smith)
•  A model with first-year variation for ring-recovery data (with S.N. Freeman).  *Biometrics*, **45**, 4, 1087-1102.


• Extended models for quantal response data. *Statistica Neerlandica, 42*, No. 4, 253-272.


• Changes in species composition following recent shelterwood cutting in mixed eucalypt stands in the Wombat forest, Victoria. *Australian Forestry, 51*, 2, 112-118 (with J.D. Kellas and R.G. Jarrett).


• Modelling ant-insect interactions on flowerheads of *Helichrysum bracteatum*. *Biometrics, 43*, 4, 767-782 (with E.A. Catchpole and D. O'Dowd).


1983

• Illustrating three-dimensional figures. *B.I.A.S.*, 10, 2, 158-166.

1982

• An approach to assessing the needs of the elderly. *Clearing House for Local Authority Social Services Research*, No. 2, 2 April, 1-102, University of Birmingham (with I.T. Jolliffe and B. Jones).

1981


1980

1979  •  Modelling heron survival using weather data. *Biometrics*, **35**, 3, 667-682 (with P.M. North)


•  On an approximation made when analysing stochastic processes. *J.Appl.Prob.*, **13**, 672-683 (with J.P. Hinde)


Topics of supervised PhD students:

- Statistical methods in ornithology (P.M. North) (EPSRC)
- Compartment modelling (S.N. Watts) (EPSRC CASE: Shell: not submitted)
- Statistical applications in memory studies (C.C. Robertson)(EPSRC)
- Imputation and variance estimation in sample surveys (A.F. Laurence)(ESRC)
- The analysis of proportions from toxicological experiments (S.E. Pack) (EPSRC CASE: Wellcome)
- A statistical examination of British bird observatories data (K.V. Darby) (EPSRC CASE: British Trust for Ornithology)
- Statistical analysis of avian breeding and survival (S.N. Freeman)(EPSRC)
- Stochastic models for diabetes melitus (P.J. Young) (EPSRC CASE: St. Thomas’ Hospital)
- An investigation of transform estimation methods (E. Campbell)(EPSRC Earmarked award)
- Stochastic models for insect movement (R. Alston) (EPSRC CASE: Rothamsted)
- Statistical models in the assessment of biological control of insect pests (P. Terrill) (EPSRC CASE: Horticulture Research International)
- Development and evaluation of a unifying home range model (J. Hardcastle) (EPSRC CASE: Institute of Terrestrial Ecology)
- Aspects of transform estimation (P.T. Besbeas)(EPSRC)
- Identifiability aspects of models for avian survival (P.M. Kgosi)
- Stochastic modelling of wildlife populations (S. Eliott)(EPSRC project studentship: not completed)
- Statistical methods for the St. Thomas’ diabetes data (Z. Mohd Khalid)
- Integrated population modelling for red deer (K. Moyes) (NERC EMS award)
- Stochastic modelling and analysis of Wetland Bird Survey Data. (T. M. Frost) (EPSRC CASE: Wildfowl and Wetlands Trust)
- The combined analysis of multi-site mark-recapture-recovery and census data (R. Borysiewicz)(NERC EMS award)
- Climate models for prediction (D. Brown)(EPSRC Project studentship)
- Demographic models for wild animal survival (E. Matechou)(Max Planck and Kent)
- Modelling individual heterogeneity in mark-recapture studies (L.Oliver) (EPSRC Project studentship)
• Statistical analysis and modelling of benthic data (B. Norris) (EPSRC CASE: Cefas) With M.S. Ridout.
• Integrated population models for colonial British seabirds (J. Lahoz-Monfort) (EPSRC Project studentship in collaboration with the Centre for Ecology and Hydrology)
• Modelling the spatio-temporal distribution of Sumatran tigers and their prey (G. Guillera-Arroita) (EPSRC Project studentship). With M.S. Ridout.
• Parameter redundancy (B. Hubbard) (EPSRC) With D. J. Cole
• Population genetics of invasive species: Characterising population genetic history and disease prevalence in the introduced population of ringneck parakeets (*Psittacula krameri*) in the UK. (H. Jackson) With J. Groombridge.
• Conservation of elusive carnivores: effects of fragmentation on the small felid guina or kodkod (*Leopardus guigna*) in the temperate forest of Southern Chile. (N. Galvez) With Z. Davies.
• Mixture models in capture-recapture (C. Yu) (EPSRC project studentship) With D.J. Cole.

Supervised post-doctoral research associates:

TEACHING

Lecture Courses given at Kent: ** indicates a course devised entirely from scratch; * indicates a course with 50% new material.

1. Statistics  
2. Statistics for biologists  
3. Statistics for Chemists  
4. Statistics for ecologists  
5. Queuing Theory  
6. Probability & Inference  
7. Nonparametric statistics  
8. Simulation  
9. Discrete data  
10. Time series  
11. Stochastic processes  
12. Probability theory  
13. Probability models and statistical methods in psychology  
14. Multivariate analysis  
15. Analysis of quantal assay data  
16. Medical statistics – Survival analysis  
17. Applied Stochastic Modelling and Data Analysis  
18. Probability  
19. Computational Statistics  
20. Multidimensional scaling  
21. Ecological Statistics

Extra-mural Courses

Statistics at ‘A’-Level; Multivariate Analysis (Kent, and TNO Delft); Time Series; Analysis of Quantal Response Data (Kent, Melbourne and Weesp, Holland); Discrete Data; Cluster Analysis; Ecological Statistics; Non-parametric Statistics (PSI and ASU Paris); Overdispersion; Applied Stochastic Modelling (RSS and Pfizer Central Research); The analysis of survival data from marked animal populations (Kent and St Andrews); Estimating Animal Abundance (St Andrews); Bayesian Computation for Population Ecology (Radolfzel, Dunedin and Cambridge); Statistical Methods for Ecology (Rostock); Bayesian Analysis for Population Ecology (St Andrews); Capture-recapture (Rothamsted and Piracicaba).
Editorial work

Editor  
*JABES*: (2005–2007)  

Associate Editor  
*Biometrics Shorter Communications* (1984-1992)  

Member, editorial board, Interdisciplinary Statistics, Chapman & Hall (1997–)

**International Biometric Society**

President/Vice President of the British and Irish Region, 2007/2011  
President of the International Biometric Society, 1996/97  
Vice-President of the International Biometric Society, 1995, 1998  
Member of the Editorial Advisory Committee (1990-1996, 2005-2014); Member of the search committee for new *Biometrics* editor, 2012.  
Member of the Council of the International Biometric Society (1988-1991)  
Secretary of the British Region (1987-1991)

**Royal Statistical Society**

Member of the Honours Committee (2006-2011)  
Member of Council (1997-2002), and a Vice-President (1997-2001)  
Member of President Nominating Committee (1999)  
Spokesman on Biology (1997-1998)  
Member of Programme Committee (1985-1989)  
Member of Editorial Committee (1985-1989)  
Member of the Research Section Committee (1983-1986)  
Chairman of the Multivariate Study Group (1982-1984)  
Member of the Multivariate Study Group Committee (1980-1982)  
Member of the East Kent Local Group Committee (1979-1982)
Conference Organisation
Session Organiser: XXVIIth International Biometric Conference, Kobe, Japan, August, 2012.
Session Organiser: 58th Session of the ISI, Dublin, August 2011.
Chairman of Local Organising Committee: International Statistical Ecology Conference (ISEC), University of Kent, July, 2010.
Chairman of Scientific Program Committee: ISEC, University of St. Andrews, July, 2008.
Member of the Scientific Programme Committee: ISEC, Kent (2010), Oslo (2012), Montpellier (2014).
Session Organiser: XXVth International Biometric Conference, Brazil, December, 2010.
Session Organiser: XXIIIth International Biometric Conference, Montreal, July, 2006.(two sessions)
Session Organiser: XXIIth International Biometric Conference, Cairns, July, 2004.(two sessions)
Session Organiser: EURING 2013 meeting: Georgia, USA, 2013.
EURING 1994 meeting: Patuxent, Maryland, USA, 1994.
EURING 1992 meeting: Montpellier, France, 1992
Joint Organiser: Anglo-German Biometric meeting, Hamburg, 1991
Member of the Scientific Program Committee, GENSTAT conference, Canterbury, 1993
Member of the Scientific Program Committee, British Biometric Conference, Sussex, 1993
Member of the Scientific Program Committee, XVth International Biometric Conference, Budapest, 1990
Member of the Scientific Program Committee, 4th European Meeting of the Psychometric Society and the Classification Societies, 1985

External Examiner
National University of Ireland, Galway (2009–2012)
Glasgow University (2002–2006)
Nottingham University (2000–2004)
Cambridge University (Diploma in Statistics, 1998; M.Phil, 1999–2000)
Sheffield University (1997–1999)
St. Andrews University (1997–1999)
University of Bath (1994–1996)
LSE (M.Sc. 1991–1994);
University of Exeter (1991–1994);
Open University (MDST242, 1988–92);
University of Sussex (1988–1991);
University of Keele (1988–1990);
University of Reading (M.Sc. Biometry 1984–1987);
Wye College, University of London (1982–1985)
Christ Church College, Canterbury (1977–1980)

**External examiner for research degrees:**

**External Review**
Member, review committee, Mathematics, University of Otago, New Zealand, April, 2014.
REF external advisor, Universities of Cardiff and Newcastle, 2013.
Member of EPSRC Mathematics Programme Grant and Prioritisation panels, September, 2012.
EPSRC Postdoctoral Fellowships Panel, December, 2009.
Chair, BioSS review committee, May, 2009.
Member, review committee, Statistics, University of Victoria, New Zealand, September, 2008.
Chair of review committee of CMIS collaboration, CSIRO, Australia, November, 2001.
Member of BBSRC panel: BBSRC Initiative in Mathematics and Modelling of Agricultural and Food Systems, July 1999.
Member of the BBSRC Rothamsted Experimental Station Visiting Group, February 1997 (Chair
of Statistics Panel).
Member of EPSRC Mathematics College, January 1997–December 1999.
Member of EPSRC College (2000–2006)
Member of EPSRC SMST panel (May 1997 and March 1998).
Member of EPSRC Mathematics panel (May 1998).
Member of the HEFCE Research Assessment Exercise Statistics Panel, 1996
Member of the BBSRC Visiting Group, Biomathematics and Statistics, Scotland, January 1996.
Member of EPSRC M.Sc. course review panel, December 1994.
Reviewer of EPSRC Earmarked awards, November 1994.
Member of the AFRC Rothamsted Experimental Station Visiting Group, April, 1992.
Member of the SERC Post-doctoral Fellowship Panel, 1992.
Member of the AFRC Visiting Group, Scottish Agricultural Statistics Service, June 1991.
Member of the Civil Service Selection Board University Panel (1984-1997)

Other External Work
Consultant, Pfizer Central Research, Sandwich (1980–2010)
Member of the International Statistical Institute Standing Committee for the promotion of statistics in the life sciences (1992–2012)
Committee member: British Classification Society (1992-1996)
RECENT GRANTS:

BBSRC/EPSRC Grant 96/E09745: New statistical methodology for evaluating animal population dynamics: July 99-June 02, £121,744. Final report graded B.

EPSRC Grant GR/M76546: Stochastic modelling of wildlife populations: October 99-September 02, £41,376. Final report graded Excellent.

BBSRC Grant 96/E14253: Historical data retrieval and imputation for Soay sheep. 19 Nov 00–19 July 01. £22,924 (with T. Clutton-Brock). Final report graded A.


BBSRC Grant: BBS/B/01219: Linking ecological and evolutionary dynamics (with T. Coulson): £149,915. Final report graded B.


SMSAS components: £255,057. (fec £318,821).


Defra: Development of models to predict the distribution of Great Crested Newts. FEC=£2346; with M.S.Ridout.

Butterfly Conservation £50,000; with M.S. Ridout.
RECENT TALKS:

• *Recent developments in statistical ecology.* General Applications Section, RSS General Applications Section, June, 2006.

• *New methods for including covariates in models for the survival of wild animals.* University of Galway, July, 2006.


• *Current problems in statistical ecology.* University of Exeter in Cornwall, November, 2006.

• *Individual variation in wild animals; A new way to perform exact perturbation analysis.* Max Planck, Rostock, December, 2006.


• *Completing the ecological jigsaw.* University of Otago, January, 2007.

• *Individual variation in wild animals; A new way to perform exact perturbation analysis.* CNRS, Chizé, May, 2007.

• *Score tests.* University of Kent, June, 2007.

• *New methods for including covariates in models for the survival of wild animals.* University of Reading, July, 2007.

• *And age shall not wither.* July 2007; Max Planck, Rostock, Germany.

• *Model identification, parameter redundancy and exhaustive summaries.* September 2007; RSS Environmental Statistics Section.

• *Incorporating age-dependence in models for mark-recapture-recovery data.* October, 2007; Rostock, Germany.

• *Modelling heterogeneity in the survival of wild animals;* November 2007, Kent.

• *Completing the ecological jigsaw.* November 2007; Reading

• *Determining parameter redundancy using symbolic algebra;* November 2007, Imperial College.

• *Recent developments in statistical ecology.* February, 2008; Bristol.

• *Estimating productivity.* February, 2008; Rostock, Germany.
• New aspects of parameter redundancy. April, 2008; RSS local group, Warwick.

• Recent developments in statistical ecology. July, 2008; Dublin.

• Now you see them. July, 2008, ISEC2008, St. Andrews


• New aspects of parameter redundancy. October, 2008, University of Wellington, New Zealand.

• Recent developments in statistical ecology. October, 2008, University of Wellington, New Zealand.

• Recent developments in statistical ecology. October, 2008, University of Otago, Dunedin, New Zealand.

• Determining the parametric structure of non-linear models. February, 2009, Lancaster.

• Determining the parametric structure of non-linear models. April, 2009, Ghent, Belgium.

• One size fits all? September, 2009, Euring, Pescara, Italy.

• Recent developments in statistical ecology, April, 2010, Essex.


• The use of mixtures in modelling the unknown arrival times of birds at stop-over sites. International Biometric Conference, Florianopolis, Brazil, December, 2010.

• Parameter redundancy. May, 2011, Glasgow.

• Covariates in capture-recapture, May, 2011, Bordeaux.

• Covariates in capture-recapture, July, 2011, Bath.

• Covariates in capture-recapture, August, 2011, Dublin.

• Score tests in capture recapture, July, 2012, ISEC2010, Oslo.

• Score tests in capture recapture, August, 2012, Kobe, Japan.
• Time-varying continuous individual covariates with multi-state missing data, May, 2013, EuroScience Open Forum, Athens, Georgia, USA.

• Batch marking, July, 2013, Lowestoft.

• The Sinh-arcsinh distribution for bioassay, July, 2013, St Andrews.

• NCSE: the formation of a national research centre, November, 2013, CNRS, Montpellier.


• Three examples of ecological modelling September, 2014, Piracicaba, Brazil.

• Statistical ecology comes of age October, 2014, Kent.

• Modelling meerkats June, 2015, Falmouth.

• N-mixture models September, 2015, RSS annual meeting, Exeter.

• Of mice and men: Statistics at the interface July, 2016, IBC2016, Victoria, BC,

• tbc March, 2016, DAGStat, Goettingen.

• tbc July, 2016, ISEC2016, Squamish, BC.