

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Panagiotis Takis Besbeas

Researcher unique ORCID identifier: <http://orcid.org/0000-0002-1579-4152>

Date of birth: 23/03/1973

Language: English (Proficient); Greek (Native)

URL for web site: http://www.aueb.gr/pages/didaktiko/faculty_gr_short.php?facid=1133;

http://www.kent.ac.uk/smsas/statistics/our-people/profiles/besbeas_takis.html

EDUCATION

- 01/01/2018 – present **Postgraduate Certificate for Higher Education (PGCHE)**
University of Kent, United Kingdom.
- 01/10/1995 – 30/06/1999 **Ph.D. in Statistics**
Institute of Mathematics and Statistics, University of Kent, United Kingdom.
Thesis title: ‘Parameter estimation based on empirical transforms’.
- 01/10/1994 – 30/09/1995 **M.Sc. in Statistics (with Distinction)**
Institute of Mathematics and Statistics, University of Kent, United Kingdom.
- 01/10/1991– 30/06/1994 **B.Sc. (Hons) in Mathematics (Statistics) (with 1st-class Honours)**
Institute of Mathematics and Statistics, University of Kent, United Kingdom.

CURRENT POSITIONS

- 01/09/2017 – present **Associate Professor in Statistics**, Department of Statistics, Athens University of Economics and Business, Greece
- 01/08/2015 – present Visiting **Senior Researcher in Statistics**, School of Mathematics, Statistics and Actuarial Science, University of Kent, UK.

PREVIOUS POSITIONS

- 01/03/2006 – 31/08/2017 **Assistant Professor in Statistics**
Department of Statistics, Athens University of Economics and Business, Greece.
- 01/09/2017 – 31/08/2018 Visiting **Lecturer in Statistics**
School of Mathematics, Statistics and Actuarial Science, University of Kent, United Kingdom.
- 01/01/2013 – 31/12/2014 Visiting **Researcher in Statistics**
School of Mathematics, Statistics and Actuarial Science, University of Kent, United Kingdom.
- 01/09/2003 – 28/02/2006 **Lecturer in Statistics**
Institute of Mathematics and Statistics, University of Kent, United Kingdom.
- 01/07/1999 – 31/05/2002 **Research Associate in Statistics**
Institute of Mathematics and Statistics, University of Kent, United Kingdom.

01/01/1999 – 30/06/1999 **Research Assistant in Statistics (before Ph.D)**
Institute of Mathematics and Statistics, University of Kent, United Kingdom.

SHORT VISITING POSITIONS

01/01/2011 – 31/03/2011 Fulbright Visiting Research Scholar, Department of Environmental Science, Policy and Management, **University of California, Berkeley, USA.**

01/04/2001 – 31/05/2001 Visiting Researcher, Department of Mathematics and Statistics, **University of Cyprus, Cyprus.**

01/05/2000 – 31/05/2000 Visiting Researcher, School of Mathematics and Statistics, **Australian Defence Force Academy, Australia.**

FELLOWSHIPS AND AWARDS

- 05/10/2017 **Bilateral Exchange of Academics 2017**, German Academic Exchange Service (**DAAD**)
- 01/03/2014 **MARM** Award, London Mathematical Society.
- 01/09/2010 **Fulbright Research Scholar** Award, Fulbright Foundation in Greece.
- 01/10/1995 –30/09/1998 **Ph.D. Scholarship, EPSRC**, United Kingdom.
- 01/10/1994 –30/09/1995 **M.Sc. Scholarship, EPSRC**, United Kingdom.
- 01/10/1991 –30/06/1994 **B.Sc. Scholarship, Kent County Council**, United Kingdom.
- 30/09/1995 M.Sc. Graduation with Distinction. **Best M.Sc. student** of the year award.
- 30/06/1994 B.Sc. Graduation with Distinction. **Royal Life Prize** award. **Institute of Mathematics and its Applications (IMA)** award.
- 30/06/1993 **Save and Prosper Educational Trust** award.

RESEARCH SUPERVISION (since 2012)

1. MSc

- Application of survival analysis methods in computer manufacturing (A. Tsiagkos)
- Statistical evaluation of Albuminuria as a marker for ICU patients. (D. Zervakis)
- Home range analysis of real telemetry data of a greylag goose inhabiting the Prespa lakes (C.K. Boleti)
- A comparison of Monte Carlo goodness of fit procedures (S. Sofianos)
- Population trend estimation from panel survey data (E. Zaliari)
- Modelling consumer data with independent mixtures and hidden Markov Models (I. Papoulias)
- Applied stochastic modelling using hidden Markov models (K. Asimaki)
- Mixture models and bootstrapping in capture-recapture (A. Tsaloukidis)
- Retention of heroin addicts in Methadone Maintenance Treatment (W.A.A. Alajlan)
- Non-linear state-space models for count time series (E. Leskou)
- Stochastic models for binomial time series with excess zeros (A. Pitsari, ongoing)

2. PhD

- Stochastic models in Ecology with emphasis on the Mediterranean area (C.S. Nisiotis)

EXTERNAL EXAMINER FOR RESEARCH DEGREES

1. Statistical models for the long-term monitoring of songbird populations. Vanessa Cave, University of St Andrews, Dec. 2009.
2. Queues, Quality Control and Success Runs: Methodology and Applications in Production. G. Mytalas, Athens University of Economics and Business, June 2012.

TEACHING

1. **Institution:** Athens University of Economics and Business
Position: Associate Professor
Dates: 01/09/20** – present
(** indicates a course devised entirely from scratch, * indicates a course with new material)
 1. Computational Statistics with R ** (M.Sc.)
 2. Advanced Statistical Inference using R ** (M.Sc.)
 3. Statistical Methods in the Environment and Ecology * (B.Sc.)
 4. Methods and Applications of Statistics in Business ** (B.Sc.)

2. **Institution:** University of Kent
Position: Lecturer in Statistics
Dates: 01/09/2017 – 31/8/2018
(** indicates a course devised entirely from scratch, * indicates a course with new material)
 5. Probability and Statistics for Act Science 2 (Postgraduate Diploma)
 6. Stochastic Models in Ecology and Medicine ** (M.Sc.)

3. **Institution:** Athens University of Economics and Business
Position: Assistant Professor
Dates: 01/03/2006 – 31/08/20**
(** indicates a course devised entirely from scratch, * indicates a course with new material)
 7. Applied Stochastic Modelling ** (M.Sc.)
 8. Numerical methods ** (Ph.D.)
 9. Statistical Applications using R ** (M.Sc.)
 10. Statistical packages and Data Analysis ** (M.Sc.)
 11. Statistical Methods in Ecology ** (B.Sc. & M.Sc.)
 12. Probability ** (B.Sc. & M.Sc.)
 13. Categorical Data Analysis * (M.Sc.)
 14. Special Topics in Biostatistics with R ** (M.Sc.)
 15. Advanced Methods in Biostatistics ** (M.Sc.)
 16. Simulation ** (B.Sc. & M.Sc.)
 17. Quantitative Methods II * (B.Sc.)
 18. Survival Analysis ** (B.Sc.)
 19. Biostatistics II * (B.Sc.)

4. **Institution:** University of Kent
Position: Lecturer
Dates: 01/09/2003 – 01/03/2006
 1. Bayesian Statistics ** (M.Sc.)
 2. Medical Statistics * (M.Sc.)

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| 3. | Statistics for Biotechnology | (M.Sc.) |
| 4. | Statistics | (B.Sc.) |
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| 5. | Institution: University of Kent | |
| | Position: Teaching Assistant (Research Associate) | |
| | Dates: 01/09/2003 – 01/03/2006 | |
| | 1. Probability | (B.Sc.) |
| | 2. Statistical Ecology | (M.Sc.) |
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| 6. | Institution: University of Kent | |
| | Position: Tutor (before Ph.D) | |
| | Dates: 01/09/1995 – 30/06/1998 | |
| | 1. Computational Mathematics | (B.Sc.) |
| | 2. Linear Algebra | (B.Sc.) |
| | 3. Linear Programming | (B.Sc.) |
| | 4. Operational Research | (B.Sc.) |
| | 5. Probability | (B.Sc.) |
| | 6. Probability and Inference | (B.Sc.) |
| | 7. Psychology Practical and Statistics | (B.Sc.) |
| | 8. Real Analysis | (B.Sc.) |
| | 9. Statistics | (B.Sc.) |

DELIVERY/ORGANISATION OF PROFESSIONAL WORKSHOPS

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| 1. | Advanced R, Centre for Health Services Studies,
University of Kent, UK
17 – 18 Sep. 2019 | [100% of the total teaching] |
| 2. | Introduction to R, Centre for Health Services Studies,
University of Kent, UK
23 – 24 Apr. 2019 | [100% of the total teaching] |
| 3. | R Workshop, Advanced Training at Kent,
University of Kent, UK.
5 – 10 Jul. 2018 | [100% of the total teaching] |
| 4. | Advanced R Workshop, Advanced Training at Kent,
University of Kent, UK.
17 – 18 Apr. 2018. | [50% of the total teaching] |
| 5. | R Training Workshop, <i>International Workshop</i> ,
University of Kent, UK.
20 – 25 Jul. 2017. | [100% of the total teaching] |
| 6. | Ecological Data Analysis in R (EcoDAR 2017),
<i>International Summer School</i> , University of the Aegean,
Mytilene, Greece.
10 – 15 Jul. 2017. | [100% of the total teaching] |
| 7. | R Training Workshop, <i>International Workshop</i> ,
University of Kent, UK.
04 – 09 Aug. 2016. | [50% of the total teaching] |
| 8. | R Training Workshop, <i>International Workshop</i> , | |

- University of Kent, UK. [50% of the total teaching]
06 – 11 Aug. 2015.
9. Ecological Data Analysis in R (EcoDAR 2015),
International Summer School, University of the Aegean,
 Mytilene, Greece. [100% of the total teaching]
06 – 11 Jul. 2015.
0. Ecological Data Analysis in R (EcoDAR 2014),
International Summer School, Hellenic Centre for Marine
 Research (HCMR), Crete, Greece. [50% of the total teaching]
06 – 13 Jul. 2014.
1. R Training Workshop, *International Workshop*,
 University of Kent, UK. [100% of the total teaching]
06 – 11 Jun. 2014.
12. Ecological Data Analysis in R (EcoDAR 2013),
International Summer School, University of the Aegean,
 Mytilene, Greece. [100% of the total teaching]
08 – 14 Jul. 2013.
13. R Training Workshop, *International Workshop*,
 University of Kent, UK. [100% of the total teaching]
05 – 11 Jun. 2013
14. Integrated Population Models,
 within Euring 2013, Athens GA, USA. [100% of the total teaching]
28 May 2013.
15. Integrated Population Modelling,
 within Joint meeting of the Royal Statistical Society
 (RSS), International Biometric Society (IBC) and British
 Ecological Society (BES), London, UK. [50% of the total teaching]
24 Sept. 2012.
16. Introduction to R for Statistical Computing and Data
 Analysis, *International Workshop*, [25% of the total teaching]
 University of Kent, UK.
03 – 10 Jun. 2012.
17. Integrated Population Modelling Training Workshop,
 within NCSE Annual Workshop 2009, St. Andrews, UK.
25 – 26 Jun. 2009.
18. Quantitative Methods in Population Dynamics,
International Workshop, University of the Aegean,
 Mytilene, Greece.
11 – 15 Jun. 2007.

CONFERENCE ORGANISATION

- Member of the Scientific Program Committee: 7th Congress of the Hellenic Ecological Society, Mytilene, Greece, Oct. 2014.

- Session Organiser (State-space Models): EURING 2013 Analytical Meeting, Georgia, USA, May 2013.
- Member of the Scientific Program Committee: International Statistical Ecology Conference, Canterbury, UK, Jul. 2010.
- Member of the Scientific Program Committee: International Statistical Ecology Conference, St. Andrews, UK, Jul. 2008.

UNIVERSITY ADMINISTRATIVE POSITIONS

- Departmental Computing Officer, Institute of Mathematics and Statistics, University of Kent: 2003 – 2006.
- Tutorial Administrator, Athens University of Economics and Business, 2016 – present

PROFESSIONAL EXPERIENCE

Member of Stats Desk (Statistics Consultancy Desk) Statistical Analysis Advisor. University of Kent: 2003 – 2006.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

1. International Biometric Society
2. Ecological Society of America.
3. National Centre for Statistical Ecology (founding member)

RESEARCH GRANTS

- 2004 Royal Statistical Society Conference Grant.
- 2009 Basic Research Funding Program (BRFP), Athens University of Economics and Business, Greece (€4000).
- 2010 Basic Research Funding Program (BRFP), Athens University of Economics and Business, Greece (€5000).
- 2013 Faculty of Sciences Research Funding 2013, University of Kent, UK (£1250).
- 2014 Faculty of Sciences Research Funding 2014, University of Kent, UK (£750).
- 2014 – 2015 MARM, London Mathematical Society (with R. Altwegg) (£10000).
- 2015 – 2016 Original Research Funding Program, Athens University of Economics and Business, Greece (€3000).
- 2017 Greek Ministry of Education and German Academic Exchange Service (€1500).
- 2017 – 2018 Original Research Funding Program, Athens University of Economics and Business, Greece (€3500).
- 2018 DoR Strategic Research Fund, University of Kent, UK (£500).
- 2019 – 2020 Original Research Funding Program, Athens University of Economics and Business, Greece (€3500).

CAREER BREAKS IN RESEARCH

25/05/2002– 25/07/2003 Military Service.

RESEARCH PUBLICATIONS

- Books *Modelling Population Dynamics: model formulation, fitting and assessment using state-space methods* (2014). Springer, New York, ISBN 978–1493909773. (with

K.B. Newman, S.T. Buckland, B.J.T. Morgan, R. King, D.L. Borchers, D.J. Cole, O. Gimenez, L. Thomas). [Cited by 40]

- Chapters in Books **Besbeas, P.**, Borysiewicz, R. and Morgan, B.J.T. (2009). Completing the ecological jigsaw. In *Modeling Demographic Processes in Marked Populations. Environmental and Ecological Statistics Series: Vol. 3* (eds D.L. Thomson, E.G. Cooch, M.J. Conroy), pp. 515–542. Springer, New York, ISBN 978–0387781501. [Cited by 35]
- Book Contribution S-Plus/R software for *Applied Stochastic Modelling*, B.J.T. Morgan. Arnold, London. ISBN 978–0340740415.
- In Encyclopedias **Besbeas, P.** (2010). Estimation. In *Encyclopedia of Research Design*, (eds. N.J. Salkind), 419–422, Sage Publications Inc., Thousand Oaks, CA. ISBN 978–1412961271
- In Journals [Number of Citations]
 1. **Besbeas, P.** and Morgan, B.J.T. (2001). Integrated squared error estimation of Cauchy parameters. *Statistics and Probability Letters*, Vol. 55, 397– 401. [Cited by 18]
 2. Antoniadis, A., **Besbeas, P.** and Sapatinas, T. (2001). Wavelet shrinkage for natural exponential families with cubic variance functions. *Sankhya*, Series A, Vol. 63, 309 –327. [Cited by 23]
 3. Abramovich, F., **Besbeas, P.** and Sapatinas, T. (2002). Empirical Bayes approach to block wavelet function estimation. *Computational Statistics and Data Analysis*, Vol. 39, 435 – 451. [Cited by 64]
 4. Fearn, T., Brown, P.J. and **Besbeas, P.** (2002). A Bayesian decision theory approach to variable selection for discrimination. *Statistics and Computing*, Vol. 12, 253 –260. [Cited by 10]
 5. **Besbeas, P.**, Freeman, S.N., Morgan B.J.T. and Catchpole E.A. (2002). Integrating mark-recapture-recovery and census data to estimate animal abundance and demographic parameters. *Biometrics*, Vol. 58, 540–547. [Cited by 281]
 6. **Besbeas, P.**, Lebreton, J.-D. and Morgan, B.J.T. (2003). The efficient integration of abundance and demographic data. *Applied Statistics*, Vol. 52, 95–102. [Cited by 82]
 7. **Besbeas, P.** and Morgan, B.J.T. (2004). Integrated squared error estimation of normal mixtures. *Computational Statistics and Data Analysis*, Vol. 44, 517– 526. [Cited by 19]
 8. **Besbeas, P.** and Morgan, B.J.T. (2004). Efficient and robust estimation for the one-sided stable distribution of index $1/2$. *Statistics and Probability Letters*, Vol. 66, 251–257. [Cited by 8]
 9. Ridout, M.S. and **Besbeas, P.** (2004). An empirical model for underdispersed count data. *Statistical Modelling*, Vol. 4, 77–89. [Cited by 66]
 10. **Besbeas, P.**, De Feis, I. and Sapatinas, T. (2004). A comparative simulation study of wavelet shrinkage estimators for Poisson counts. *International Statistical Review*, Vol. 72, 209–237. [Cited by 93]

11. **Besbeas, P.**, Freeman, S.N. and Morgan, B.J.T. (2005). The potential of integrated population modelling. *Australian and New Zealand Journal of Statistics*, Vol. 47, 35–48.
[Cited by 68]
12. **Besbeas, P.** and Freeman, S.N. (2006). Methods for joint inference from panel survey and demographic data. *Ecology*, Vol. 87, 1138–1145.
[Cited by 29]
13. Gauthier, G., **Besbeas, P.**, Lebreton, J.-D. and Morgan, B.J.T. (2007). Population growth in greater snow geese: a modeling approach integrating demographic and population survey information. *Ecology*, Vol. 88, 1420–1429.
[Cited by 41]
14. **Besbeas, P.** and Morgan, B.J.T. (2008). Improved estimation for the stable laws. *Statistics and Computing*, Vol. 18, 219–231.
[Cited by 16]
15. Tavecchia, G., **Besbeas, P.**, Coulson, T., Morgan, B.J.T. and Clutton-Brock, T.H. (2009). Estimating population size and hidden demographic parameters with state-space modelling. *American Naturalist*, Vol. 173, 722–733.
[Cited by 49]
16. McCrea, R.S., Morgan, B.J.T., Gimenez, O., **Besbeas, P.**, Lebreton, J.-D. and Bregnballe, T. (2010). Multi-site integrated population modelling. *Journal of Agricultural, Biological and Environmental Statistics*, Vol. 15, 539–561.
[Cited by 27]
17. Viallefont, A., **Besbeas, P.**, Morgan, B.J.T. and McCrea, R.S. (2012). Estimating survival and transition rates from aggregate sightings of animals. *Journal of Ornithology*, Vol. 152 (Suppl. 2), 381–391.
[Cited by 1]
18. Freeman, S.N. and **Besbeas, P.** (2012). Quantifying changes in abundance without counting animals: extensions to a method of fitting integrated population models. *Journal of Ornithology*, Vol. 152(Suppl. 2), 409–418.
[Cited by 5]
19. **Besbeas, P.** and Morgan, B.J.T. (2012). Kalman filter initialization for integrated population modelling. *Applied Statistics*, Vol. 61, 151–162.
[Cited by 7]
20. **Besbeas, P.** and Morgan, B.J.T. (2012). A threshold model for heron productivity. *Journal of Agricultural, Biological and Environmental Statistics*, Vol. 17, 128–141.
[Cited by 11]
21. Knape, J., **Besbeas, P.** and deValpine, P. (2013). Using uncertainly estimates in analyses of population time series. *Ecology*, Vol. 9, 2097–2107.
[Cited by 22]
22. Cowen, L.L.E., **Besbeas, P.**, Morgan, B.J.T. and Schwarz, C.J. (2014). A comparison of abundance estimates from extended batch-marking and Jolly-Seber type experiments. *Ecology and Evolution*, Vol. 4, 210–218.
[Cited by 6]
23. **Besbeas, P.** and Morgan, B.J.T. (2014). Goodness of fit of integrated population models using calibrated simulation. *Methods in Ecology and Evolution*, Vol. 5, 1373–1382.
[Cited by 19]
24. **Besbeas, P.** and Morgan, B.J.T. (2017). Variance estimation for integrated population models. *Advances in Statistical Analysis*. Vol. 101, 439–460.

25. Cowen, L.L.E., **Besbeas, P.**, Morgan, B.J.T. and Schwarz, C.J. (2017). Hidden Markov models for extended batch data. *Biometrics*, Vol. 73, 1321–1331. [Cited by 1]
 26. **Besbeas, P.**, Morgan, B.J.T. (2019). Exact inference for integrated population modelling. *Biometrics*, Vol. 75, 475-484. [Cited by **]
 27. **Besbeas, P.**, Morgan, B.J.T. (2020). A general framework for modelling population abundance data. *Biometrics*, Vol. 76, 281–292. [Cited by **]
 28. Freeman, S.N, Isaac, N., **Besbeas, P.**, Dennis, E.D., Morgan, B.J.T. (2020). A generic method for estimating and smoothing multispecies biodiversity indicators using intermittent data. Invited revision
- In Preparation
 1. Papageorgiou, I., Besbeas, P., and Moustaki, I. A fast automatically calibrated resampling method for evaluating multinomial model fit.
 2. Besbeas, P., Dennis, E. and Morgan, B.J.T.. Hidden Markov modelling of butterfly dynamics.
 3. **Besbeas, P.**, McCrea, R.S. and Morgan, B.J.T.. Integrated population model selection in ecology.
 4. Nisiotis, C.S. and **Besbeas, P.**. Flexible estimation of time to sign decay in indirect survey methods.
 5. Nisiotis, C.S. and **Besbeas, P.**. Estimation of red deer population density in Mount Parnitha using hierarchical distance sampling.
 - In Conference proceedings or edited volumes
 1. Morgan, B.J.T., **Besbeas, P.**, Thomas, L., Buckland, S., Harwood, J., Duck C. and Pomeroy, P. (2003). Integrated analysis of wildlife population dynamics. In *EURING 2003 Proceedings*, page 20.
 2. **Besbeas, P.**, Freeman S.N. and Morgan, B.J.T. (2002). The potential of integrated population modelling. In *SEEM4 Statistics in Ecology and Environmental Monitoring Proceedings*, page 31.
 3. **Besbeas, P.**, Freeman S.N. and Morgan, B.J.T. (2002). Integrated modelling of wild animal populations. In *XXIth International Biometrics Conference Proceedings*, pages 13 – 14.
 4. **Besbeas, P.**, Freeman S.N. and Morgan, B.J.T. (2002). Integrated modelling of wild animal populations. In *Royal Statistical Society 2002*, page 64.
 5. **Besbeas, P.**, Lebreton, J.-D. and Morgan, B.J.T. (2001). New methodology for integrated monitoring of wild animal populations. In *Bulletin of the 53rd Session of the ISI: Tome LIX, Book I*, pages 361– 364.
 6. **Besbeas, P.**, Freeman S.N. and Morgan, B.J.T. (2000). Integrated ring-recovery and census data analysis. In *EURING 2000 Proceedings*, page 18.
 7. **Besbeas, P.**, Freeman S.N., Morgan, B.J.T. and Catchpole, E.A. (2000). Integrated ring-recovery and census data analysis. In *XXth International Biometrics Conference Proceedings*, page 133.
 8. **Besbeas, P.** and Morgan, B.J.T. (1999). New statistical methodology for estimating survival probabilities of wild animals using census information. In *Workshop Abstract Booklet, Joint BBSRC / EPSRC Workshop in Theoretical Biology*, page 33.

▪ Technical Reports

1. **Besbeas, P.**, Freeman S.N. and Morgan, B.J.T. (2002). Statistics for the birds. *Invited*, in *BBSRC Business Magazine*, pages 5– 7, July 2002.
2. **Besbeas, P.**, Tavecchia, G., Morgan, B.J.T., Catchpole E.A. and Coulson T.N. (2002). Population dynamics of Soay sheep, University of Kent, *IMS Technical Report UKC/IMS/02/35*.
3. **Besbeas, P.**, Kershaw M. and Morgan B.J.T. (2002). Integrated analysis of teal data. University of Kent, *IMS Technical Report UKC/IMS/02/39*.
4. **Besbeas, P.**, Harwood J., Morgan, B.J.T. and Pomeroy P. (2002). Integrated analysis of grey seal data. University of Kent, *IMS Technical Report UKC/IMS/02/36*.
5. **Besbeas, P.**, Freeman S.N. and Morgan, B.J.T. and Catchpole, E.A. (2001). Stochastic models for animal abundance and demographic data. University of Kent, *IMS Technical Report UKC/IMS/01/16*.
6. **Besbeas, P.** and Morgan, B.J.T. (2001). Aspects of k - L estimation. University of Kent, *IMS Technical Report UKC/IMS/01/49*.

INVITED TALKS AND SEMINARS

1. Hidden Markov modelling of animal population dynamics. *Royal Statistical Society Conference 2019*, Belfast, Sep. 2019. **(Invited speaker)**
2. Exact integrated population modelling. *Bielefeld University*, Bielefeld, Oct. 2017. **(Invited speaker)**
3. Wildlife population assessment methods. *CAPAM Data Weighting Workshop 2015*, La Jolla, CA, Oct. 2015. **(Keynote speaker)**
4. Recent developments in integrated population modelling. *IBS Channel Network 2015*, Nijmegen, Apr. 2015. **(Keynote speaker)**
5. A Monte Carlo goodness-of-fit procedure for integrated population models. *Euring 2013*, Athens GA, USA, Apr. 2013. **(Keynote speaker)**
6. Recent developments in Integrated Population Modelling. *Joint meeting of the RSS, IBC and BES*, London, Sep. 2012. **(Keynote speaker)**
7. Methods for increasing efficiency in analyses of population abundance time series. *IMEDEA*, Mallorca, Feb. 2012. **(Invited speaker)**
8. Wildlife population modelling. *Department of Environmental Science, Policy, and Management, UC Berkeley*, Berkeley, Feb. 2011. **(Keynote speaker)**
9. Wildlife population modelling: Existing and new methods. *XXIIIth International Biometrics Conference*, Montreal, Jul. 2006. **(Keynote speaker)**
10. Classical methods for modelling wildlife population dynamics. *Royal Statistical Society, General Applications Section: Statistics in Ecology*, London, Jun. 2006. **(Keynote speaker)**
11. Integrative wildlife population modelling via the Kalman filter. *1st National Centre for Statistical Ecology Conference*, St. Andrews, May 2006. **(Keynote speaker)**
12. Integrated modelling of wild animal populations. *NERC/EMS Workshop on Inference for Stochastic Population Models in Epidemiology and Ecology*. Edinburgh, Sep. 2004. **(Invited speaker)**
13. Integrated monitoring of wild animal populations. *Centre for Research into Ecological and Environmental Modelling*, University of St. Andrews, Mar. 2002. **(Invited speaker)**
14. Stochastic models for animal capture-recapture and census data. *Open University*, Milton Keynes, Nov. 2001. **(Invited speaker)**
15. New methodology for monitoring wild animal populations. *University College London*, London,

- Oct. 2001. **(Invited speaker)**
16. Stochastic models for animal abundance and demographic data. *University of Cyprus*, Nicosia, Apr. 2001. **(Invited speaker)**
 17. Modeling heron and lapwing survival using ring-recovery and census data. *British Trust for Ornithology*, Thetford, Aug. 2000. **(Invited speaker)**
 18. Integrated ring-recovery and census data analysis. *Australian Defence Force Academy*, Canberra, May 2000. **(Invited speaker)**

CONTRIBUTED CONFERENCE PRESENTATIONS

1. Estimating multispecies biodiversity indicators. CFE-ERCIM 2019, London, Dec. 2019.
2. Modelling population dynamics using hidden Markov models. ICMS Workshop 2019 ‘Addressing Statistical Challenges of Modern Technological Advances’, Edinburgh, Jun. 2019.
3. Efficient estimation for non-linear state space models for population survey data. CFE-ERCIM 2018, Pisa, Dec. 2018.
4. To die or not to die. Integrated modelling of immigration. Euring 2017, Barcelona, Jul. 2017.
5. Estimation of red deer population density in Mount Parnitha using Distance sampling. NCSE Summer Workshop 2017, Canterbury, Jun. 2017.
6. Efficient, flexible estimation of time to decay of signs in indirect survey methods. International Statistical Ecology Conference 2016, Seattle, Jul. 2016.
7. Efficient model-fitting for N-mixtures. NCSE Annual Workshop 2015, Falmouth, Jun. 2015.
8. Goodness of fit for integrated models. International Statistical Ecology Conference 2014, Montpellier, Jul. 2014.
9. Estimating age-structure in survival from mark-recovery and integrated data. NCSE Annual Workshop 2013, Lowestoft, Jul. 2013.
10. Replicated sampling in population modelling. International Statistical Ecology Conference 2012, Oslo, Jul. 2012.
11. Replicated sampling in population monitoring. NCSE Annual Workshop 2011, Bath, Jul. 2011.
12. Modelling population dynamics from repeated surveys. CFE-ERCIM 2011, London, Dec. 2011.
13. Integrated population model selection. CFE-ERCIM 2010, London, Dec. 2010, London, Dec. 2010.
14. Integrated population model assessment. International Statistical Ecology Conference 2010, Canterbury, Jul. 2010.
15. Estimating abundance from presence/absence and mark-recovery data. Euring 2009, Pescara, Sep. 2009.
16. Integrated Modelling with P/A data. NSCE Annual Workshop 2009, St. Andrews, Jun. 2009.
17. Heterogeneity in integrated population modelling. XXIVth International Biometrics Conference, Dublin, Jul. 2008.
18. Heterogeneity in integrated population modelling. International Statistical Ecology Conference, St Andrews, Jul. 2008.
19. Introducing overdispersion in state-space models. 2nd National Centre for Statistical Ecology Conference, Canterbury, Jun. 2007.
20. Simultaneous survival, abundance and fecundity estimation for assessing animal population dynamics. XXIIth International Biometric Conference, Cairns, Jul. 2004.

21. Integrated monitoring of wild animal populations. International Biometric Society (British Region) Meeting with theme 'Biometrika: a celebration of the first 100 years', University College London (UCL), London, Nov. 2001.
22. Integrated monitoring of wild animal populations. Joint EPSRC / BBSRC / MRC / NERC Workshop in Theoretical Biology, Cambridge, Oct. 2001.
23. Integrated squared error estimation of normal mixtures. Workshop on Statistical Mixtures and Latent Structure, Edinburgh, Mar. 2001.
24. Integrated ring-recovery and census data analysis. XXth International Biometric Conference, San Francisco, July 2000.
25. New statistical methodology for evaluating animal population dynamics. Joint BBSRC / EPSRC Workshop in Theoretical Biology, Bournemouth, Nov. 1999.
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- Journal of the American Statistical Association
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