

# Natalie Karavarsamis, PhD

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## ACADEMIC & INDUSTRY POSITIONS

- 2018–2021 **Lecturer and Researcher**, Department of Mathematics and Statistics.  
La Trobe University, Australia
- 2020 **Statistical Consultant**.  
University of Southern Queensland, Australia
- 2019 **Visiting Research Fellow**, Boston Children's Hospital, and Department of Neuroscience.  
Harvard University, USA
- 2019 **Visiting Research Fellow**, Statify (formerly Mistis).  
Inria, Grenoble Rhone-Alpes, France
- 2019 **Visiting Research Fellow**, Department of Statistics.  
University of Rosario, Argentina
- 2016– **Honorary Research Fellow**, School of Mathematics and Statistics.  
University of Melbourne, Australia
- 2016–2017 **Lecturer of Statistics**, School of Mathematics and Statistics.  
University of Melbourne, Australia
- 2016–2017 **Postdoctoral Research Fellow**, School of Biosciences.  
University of Melbourne, Australia
- 2015 **Postdoctoral Research Fellow**, School of Mathematical and Geospatial Sciences.  
RMIT University, Australia
- Project title: New statistical approaches for analysing species distributions (ARC). 2009–2014
- 2009–2014 **PhD candidate**, School of Mathematics and Statistics.  
University of Melbourne, Australia
- 2009–2012 **Doctoral Research Fellow**, Parks Victoria.  
Victoria, Australia

## PREDOCTORAL

- 2008 **Research Fellow**, School of Food and Land Sciences.  
University of Melbourne, Deakin University
- 2004–2007 **Biometrician**, Department of Primary Industries.  
Victorian State Government, Australia
- 2004–2007 **Research Associate**, Department of Primary Industries.  
Victorian State Government, Australia
- 2004–2007 **Supervisor**, Department of Primary Industries.  
Victorian State Government, Australia
- 2004 **Statistical Consultant**, Department of Primary Industries.  
Victorian State Government, Australia
- 2001–2003 **Biostatistician**, Cancer Epidemiology Centre.  
Cancer Council of Victoria, Australia

- 2001–2003 **Statistical Consultant**, Cancer Epidemiology Centre.  
Cancer Council of Victoria, Australia
- 2001–2003 **Research Associate**, Cancer Epidemiology Centre.  
Cancer Council of Victoria, Australia
- 2001–2017 **Teaching Assistant**, School of Mathematics and Statistics.  
University of Melbourne
- 2000 **Honours Candidate in Statistics**, School of Mathematics and Statistics.  
University of Melbourne
- 2000 **Research Assistant**, Statistical Consulting Centre, School of Mathematics and Statistics.  
University of Melbourne
- 1999 **Research Assistant**, School of Medicine.  
University of Crete, Greece
- 1999–2007 **Private Tutor**, *Maths and Science (All levels)*.  
Melbourne, Australia
- 1998 **Private Tutor**, *Maths, Science and English language*, All levels.  
Athens & Crete, Greece
- 1998 **Translator**, *(English to Greek) Scientific Journal*.  
Athens, Greece

## TERTIARY EDUCATION

- 2009–2015 **Ph.D. in Statistics**, School of Mathematics and Statistics, University of Melbourne, Australia.  
Thesis: Methods for estimating occupancy.  
Supervisors: Prof. Richard Huggins, A/Prof. Ray Watson, Ass. Prof. Andrew Robinson and Ass. Prof. Graham Hepworth.
- 2000 **B.Sc. Honours degree in Statistics - 1<sup>st</sup> Class Honours**, School of Mathematics and Statistics, University of Melbourne, Australia.  
Thesis: Methods of Meta-Analysis.  
Supervisors: Dr Ken Sharpe and Ass. Prof. Ian Gordon.
- 1996 **B.Sc. in Statistics and Operations Research**, School of Mathematics and Statistics, University of Melbourne, Australia.

## TEACHING

### TEACHING & COORDINATION

- 2020 **Biostatistics**, (STA3BS). 3rd year Undergraduate, Department of Mathematics and Statistics.  
La Trobe University, Australia
- 2019 **Engineering Probability and Statistics**, (STM3EPS). 3rd year Undergraduate, Department of Mathematics and Statistics, Department of Engineering.  
La Trobe University, Australia
- 2018–2020 **Statistics**, (STA3AS). Advanced statistical methods: Sample surveys, Multivariate methods, Time series methods. 3rd year Undergraduate & 4th year Honours., Department of Mathematics and Statistics.  
La Trobe University

- 2018–2020 **Applied Statistical Methods**, (STA2ASM). Applied Biostatistics and Applied Medical Statistics. 2nd year Undergraduate, Department of Mathematics and Statistics. La Trobe University, Australia
- 2018 **Linear Models**, (STA3LM). 3rd year Undergraduate, Advanced statistical methods, Department of Mathematics and Statistics. La Trobe University, Australia
- 2016–2017 **Thinking and Reasoning with Data**, (MAST90044). Masters & Postgraduate, School of Mathematics and Statistics. University of Melbourne, Australia
- PREDOCTORAL**
- 2004 **Design and Analysis of Experiments**, *2-day Workshop*, Department of Primary Industries, Irymple, Victoria, Australia.
- TEACHING ASSISTANT**
- 2010–2017 **Statistics for Research Workers**, Postgraduate and Professional level. Intensive 6-day short course, Statistical Consulting Centre, School of Mathematics and Statistics. University of Melbourne
- 2009 **Critical Thinking with Data**, 1st year Undergraduate, School of Mathematics and Statistics. University of Melbourne
- PREDOCTORAL**
- 2008–2017 **Data Analysis**, (MAST10010). 1st year Undergraduate, School of Mathematics and Statistics. University of Melbourne
- 2008 **Experimental Design and Data Analysis for Biomedical Science**, 1st year Undergraduate, School of Mathematics and Statistics. University of Melbourne
- 2007, 2008 **Applied Statistics**, 2nd year Undergraduate, School of Mathematics and Statistics. University of Melbourne
- 2007, 2008 **Experimental Design/Statistical Methods**, 2nd year Undergraduate, School of Mathematics and Statistics. University of Melbourne
- 2001–2017 **Experimental Design and Data Analysis**, (MAST10011). 1st year Undergraduate, School of Mathematics and Statistics. University of Melbourne
- 2006–2007 **Tutor**, *Volunteer*, Drop-in After School Tutoring Centre, Reading and comprehension, maths and science, primary and secondary level. Hanover Centre, Footscray Library
- 1999–2007 **Tutor**, *Private*, Primary, secondary (including Year 11 and 12): Maths, Science, Chemistry, Physics, Undergraduate, postgraduate & professional level Statistics tutoring across universities and faculties.

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## INDUSTRY & MAJOR PROJECTS

- 2018–2020 **Project Leader and Chief Statistician/Data Scientist (Harvard University and Boston Children’s Hospital and Department of Neuroscience)**. Project: Circular and Cylindrical distributions for correlated time series data: Zebrafish for new pathways of neuroscience in gene brain mapping childhood epilepsy.
- 2018–2020 **Project Leader and Chief Statistician/Data Scientist (Harvard University and Boston Children’s Hospital and Department of Neuroscience)**. Project: High-throughput data analysis, spatiotemporal methods, Machine learning, Data Mining for heterogeneous and large scale data on zebrafish for new pathways of neuroscience in gene brain mapping childhood epilepsy.
- 2016–2017 **Project Leader and Chief Statistician/Data Scientist (UoM)**. Project: How can the score test be consistent? Funding: Australian Research Council.
- 2015 **Project Leader and Chief Statistician/Data Scientist (RMIT)**. Project: New statistical approaches for analysing species distributions. Funding: Australian Research Council.
- 2009–2010 **Project Leader and Chief Statistician (UoM)**. Project: Fox Control Program in Victoria. Stakeholders: Parks Victoria, School of Mathematics and Statistics (University of Melbourne (UoM), Australia). Funding: PhD Scholarship, Stipend from Parks Victoria.
- 2008 **Project Leader and Chief Statistician**. Project: Estimating Annual probability of infection for quantitative microbial risk assessment. Stakeholders: ARC Industry Linkage Grant, Melbourne School of Land and Environment (University of Melbourne (UoM)). Funding: ARC Industry Linkage Grant.
- 2006–2007 **Project Co-Leader and Chief Statistician (Department of Primary Industries)**. Project: Validating the yield performance of alternatives to methyl bromide for pre-plant fumigation. Stakeholders: TEAP and UNEP, Department of Primary Industries.
- 2003–2005 **Chief Investigator and Chief Statistician (Department of Primary Industries)**. Project: Reducing Spoilage and Contamination Risks of Fresh Vegetables in China and Australia, Chinese Collaboration. Stakeholders: China, Department of Primary Industries.
- 2004–2005 **Chief Investigator and Chief Statistician (Department of Primary Industries)**. Project: National (Australian) Industry potato grower Project. Stakeholders: McCains, Department of Primary Industries.
- 2004 **Chief Investigator and Chief Statistician (Department of Primary Industries)**. Project: Importation Risk Analysis for Apples from New Zealand. Stakeholders: Australian Government, Department of Primary Industries.
- 2001–2003 **Senior Investigator and Senior Statistician (Cancer Council of Victoria)**. Project: Melbourne Collaborative Cohort Study (MCCS), commenced 1990. Stakeholders: University of Melbourne, State Government of Victoria, Cancer Council of Victoria.
- 2001–2003 **Senior Investigator and Senior Statistician (Cancer Council of Victoria)**. Project: Eating Patterns and Food Consumption Survey and Methods Development, MCCS. Stakeholders: University of Melbourne, State Government of Victoria, Cancer Council of Victoria

- 2001–2003 **Project Leader, Chief Statistician and Chief Programmer (Cancer Council of Victoria)**. Project: Nutrient Analysis Methods Development and Testing. Software testing (Visual Basic- VBA) and software development in STATA. Stakeholders: Commercial product, Cancer Council of Victoria.
- 1999 **Chief Statistician (University of Crete)**. Project: European Union Seven Countries Study. Stakeholders: European Union, University of Crete (School of Medicine, Greece).

## CONFERENCE PRESENTATIONS

- 2019 **Estimating occupancy and fitting models**. 3rd Research School on Statistics and Data Science (RSSDS), July, La Trobe University, Melbourne, Australia (Springer)
- 2019 **Data mining swimming behaviour of adult zebrafish** (Accepted). 3rd International Conference on Econometrics and Statistics (EcoSta 2019), National Chung Hsing University, Taiwan
- 2018 **How can the score test be consistent?**. International Statistical Ecology Conference (ISEC) 2018, St Andrews, Scotland
- 2010 **Comparison of four bootstrap-based interval estimators of species occupancy and detection probabilities**. (Accepted) International Statistical Ecology Conference (ISEC), University of Kent, UK
- 2009 **Comparison of four bootstrap-based interval estimators of species occupancy and detection probabilities**. (Accepted) International Biometrics Society Australasian Region Conference (IBS), Taupo, New Zealand
- Predoctoral**
- 2008 **Estimators of Annual Probability of Infection, Karavarsamis, N..** Speaker, Australasian Statistical Conference (ASC), Melbourne, Australia
- Conference Delegate**
- 2005 The 55<sup>th</sup> Session of the International Statistical Institute (ISI) . Sydney, NSW Australia. Conference Delegate. Funding: Denise Lievesley Young Statisticians Award, and Department of Primary Industries
- 2004 International Biometrics Conference joint Statistical Society of Australia (SSAI). Cairns, QLD, Australia. Conference delegate. Funding: Department of Primary Industries (DPI)
- 2001 The Australasian Epidemiological Conference and the Biostatistics Conference. Sydney, NSW, Australia

## INVITED PRESENTATIONS, SEMINARS & WORKSHOPS

### Invited Speaker

- 2019 **Circular statistics and data mining for Zebrafish models** (Invited Speaker). Boston Children's Hospital and Department of Neuroscience, November, Harvard University, USA
- 2019 **Estimating occupancy and the two-stage approach** (Invited Speaker). INRIA Seminar Series. Grenoble, France
- 2019 **Circular statistics and data mining for Zebrafish models** (Invited Speaker). INRIA Seminar Series. Grenoble, France

- 2019 **Estimating occupancy and fitting models** (Invited Speaker). Monash Statistics Seminar Series, Monash University, Australia
- 2019 **Circular statistics for Zebrafish**. Invited Speaker. Joint Harvard and La Trobe University Special Seminar, La Trobe University, Australia
- 2019 **Estimating occupancy and the two-stage approach** (Invited Speaker). RMIT Data Analytics Seminar Series. RMIT University, Australia
- 2018 **How can the score test be consistent?**. Invited Speaker. La Trobe–Kyushu Joint Seminar Series, La Trobe University
- 2018 **How can the score test be consistent?**. Invited speaker. Statistical Seminar Series, La Trobe University
- 2018 Invited Speaker, AMSI Choose Maths Day, La Trobe University
- 2014 **Methods for Estimating Occupancy**. PhD Completion Seminar. School of Mathematics and Statistics, University of Melbourne, Australia
- 2013 **Occupancy Models**. Invited Speaker. Fortnightly seminar series. School of Mathematics and Statistics, University of Melbourne
- 2010 **Occupancy Methods**. ACERA, University of Melbourne
- 2009–2012 Journal Club Presenter, School of Mathematics and Statistics, University of Melbourne, Australia.

#### Predoctoral

- 2004 **Design of Experiments**. Workshop Invited Presenter. Department of Primary Industries, Irymple, Victoria, Australia
- 2003 **Energy-adjustment methods for nutrient data**. Invited Speaker. Work-in-Progress (WIP) Statistics Seminar Series. Centre for Genetic Epidemiology & School of Public Health, University of Melbourne, Australia

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## ACADEMIC SERVICE

### EDITORIAL ROLES

- 2018–present Technical Sub-Editor, Australian and New Zealand Journal of Statistics (Wiley)
- 2019 Editor, Proceedings of Research School on Statistics and Data Science (RSSDS), Communications in Computer and Information Science (Springer)
- 2019 Editor, Science Gazette, Department of Mathematics and Statistics, La Trobe University, Australia

### PEER REVIEW

- 2020–present Biometrics (Wiley)
- 2020–present Journal of Agricultural, Biological, and Environmental Statistics (JABE) (Springer Nature)
- 2019 Proceedings of Research School on Statistics and Data Science (RSSDS), Communications in Computer and Information Science (Springer)
- 2018–present Journal of Pediatric Rehabilitation Medicine (IOS Press)
- 2018–present Austral Ecology, A Journal of ecology in the Southern Hemisphere, Ecological Society of Australia (Wiley)

### ROLES

- 2019–2021 Mathematics, Statistics, and Data Science Majors and Minors Course Advisor. Bachelor of Science Course Program, La Trobe University, Australia
- 2018–2021 International Student Application Assessor Mathematics, Statistics, and Data Science Majors and Minors. Bachelor of Science Course Program, La Trobe University, Australia
- 2018–2020 International Student PhD Applicant Assessor, Department Mathematics and Statistics, La Trobe University, Australia.
- 2018–2021 Higher Degree Thesis Examiner, Department of Mathematics and Statistics, La Trobe University, Australia

### COMMITTEES

- 2019–2020 Organising Committee Member, International Statistical Ecology Conference (ISEC2020), University of New South Wales, Sydney, Australia, June 22–26, 2020.
- 2019–2020 Workshop Co-Chair, Research School on Statistics and Data Science (RSSDS2019), La Trobe University, July 24–26, 2019 (<https://sites.google.com/view/rssds2019>).
- 2019 Committee Member, Women in Mathematics Day, La Trobe University, joint WIMISG event in honour of Maryam Mirzakhani the first female Fields Medallist.
- 2019 Committee Member, Choose Maths Day, La Trobe University, in collaboration with Australian Mathematical Sciences Institute (AMSI).
- 2018–2020 Committee Member. Higher Degree International PhD Submissions, Department Mathematics and Statistics, La Trobe University.
- 2017 Committee Member & Organisator, Mathematics & Statistics Female Academics & PhD Mentoring Program, University of Melbourne.
- 2014–2017 Member, Equity Plenary Committee, University of Melbourne.
- 2010 Committee, 2010 Victorian Mathematics and Statistics Student Conference, School of Mathematics and Statistics, of Melbourne Melbourne.
- 2009–2012 Journal Club organiser, School of Mathematics and Statistics, University of Melbourne, Australia.
- 2003–2005 Founder, Committee Member and Administrator, Young Statisticians of Statistical Society Australia (SSA), Victoria, Australia.

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### PROFESSIONAL SERVICE & OUTREACH

- 2018–2019 Statistics Seminar Administrator, Department of Mathematics and Statistics, La Trobe University, Australia
- 2019 Invited Speaker, Subject Selection Fair 2019, La Trobe University, Australia
- 2019 Q&A Panel Member, Women in Mathematics Day, La Trobe University, joint WIMISG event in honour of Maryam Mirzakhani the first female Fields Medallist
- 2018 Chair, Statistics Session, AMSI Summer Scholar Conference, Melbourne University
- 2018 Founder and Administrator, Statistics Journal Club, Department of Mathematics and Statistics, La Trobe University.
- 2018 Discussion Panel Member, AMSI Choose Maths, La Trobe University, Australia
- 2018 Ambassador, Mathematics & Statistics Education at La Trobe University, 55th Annual Conference, Mathematical Association of Victoria, La Trobe University



- 2018 Ambassador, Open Day activities, Department of Mathematics and Statistics, La Trobe University
- 2018 Invitee, Vice Chancellor's Luncheon, La Trobe University
- 2017 Mentor, Mathematics & Statistics Female PhD & Academic Mentoring Program
- 2009–2012 Ambassador, Open Day activities, Department of Mathematics and Statistics, Melbourne University
- 2012 Invited Speaker (Outreach), Year 9 Mathematics Class, Melbourne, Australia
- 2009–2014 Mentor, International Students, University of Melbourne
- 2009–2012 Journal Club Organiser, School of Mathematics and Statistics, University of Melbourne.
- 2007 Volunteer Tutor, Hanover Center, Melbourne, Australia
- 2001–2004 Administrator, Young Statisticians of Victoria, Australia
- 2001 Co-founder, Young Statisticians of Victoria, Australia
- 2001–2017 Tutor at the First-Year Learning Centre, Department of Mathematics, University of Melbourne
- 2001– Member, Statistical Society of Australia

## GRANTS, AWARDS AND FUNDING

- 2019 Finalist, Fulbright Scholarship. Collaboration with Boston Children's Hospital and Department of Neuroscience at Harvard University (USA)
- 2019 La Trobe Fellowship Support Program for DECRA from Australian Research Council.
- 2019 Travel Grant, Department Mathematics and Statistics, La Trobe University. AUD \$7000
- 2018 Australian-French Association for Research and Innovation (AFRAN). AUD \$3000
- 2016 Early Career Researcher Establishment Grant, School of Mathematics and Statistics, University of Melbourne. AUD \$6000
- 2015 Ph.D. Write Up Grant, University of Melbourne. AUD \$6000
- 2009–2014 Ph.D. Scholarship, University of Melbourne. AUD \$23,000 per annum
- 2010–2012 Ph.D. Stipend, Fox Control Program, Parks Victoria. AUD \$10,000 per annum
- 2010 Melbourne abroad travelling scholarships (MATS), School of Mathematics and Statistics, University of Melbourne. AUD \$15,000
- 2010 The Overseas Research Student Belz Award Scheme. School of Mathematics and Statistics, The University of Melbourne. AUD \$15,000
- 2009 Travel Award, School of Mathematics and Statistics, University of Melbourne. AUD \$10,000
- 2008 Conference funding, Department of Land and Food Sciences, University of Melbourne. AUD \$5000
- 2005 Denise Lievesley Young Statisticians Award, Statistical Society of Australia. Full funding for International Statistical Institute (ISI) conference.
- 2004 Travel Award, International Biometrics (IBC) and Australasian Statistical (ASC) conference, Department of Primary Industries. AUD \$7000
- 2001 Travel Award, Australasian Epidemiological Association (AEA) and Biostatistics Conference, Cancer Epidemiology Centre (CEC), Cancer Council of Victoria. AUD \$6000



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## SUPERVISION

### PROFESSIONAL

- 2018–2020 Teaching staff supervisor, Department of Mathematics and Statistics, La Trobe University, Australia
- 2016–2017 Teaching staff supervisor, Department of Mathematics and Statistics, La Trobe University, Australia
- 2004–2005 Professional Supervisor, Research Assistants, Department of Primary Industries

### RESEARCH STUDENTS

- 2020–2020 Student Co-supervisor, PhD Candidate, Department of Mathematics and Statistics, La Trobe University, Australia
- 2018–2020 Student Co-supervisor, PhD Candidate, Department of Mathematics and Statistics, La Trobe University, Australia
- 2018 Student Supervisor, AMSI Summer Scholarships, Department of Mathematics and Statistics, La Trobe University, Australia
- 2018 Student Supervisor, AMSI Summer Scholarships, Department of Mathematics and Statistics, La Trobe University, Australia

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## SOFTWARE

Software programmer for commercial industry and academic research. My own R package **twostage** (in publication) implements my two-stage approach, new mathematical methods I developed in occupancy estimation. I am fluent in Genstat, Stata and Excel add-ons such as Risk-analysis, VBA, and other software such as C++, and Ruby for Github, Python, Mathematica, Matlab etc.

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## RESEARCH FOCUS

Circular distributions; Cylindrical distributions; Time-series; Partial likelihoods; Zero-inflated distributions; Inference for zero-inflated distributions; GAMs; GLMMs; HMMs; Statistical ecology methods; Hypothesis tests for two-sample occupancy models; Equivalence test. Analysis of high-dimensional data sets; Statistical ecology methods and applications; Spatiotemporal modelling for highly heterogeneous and large scale data eg biological and gene data. Machine learning methods; Computational algorithms; Classification methods; Multivariate methods.

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## EXTRA-CURRICULAR ACHIEVEMENTS

Concept, Executive Producer and Dancer. *Dance Class* (2011). Contemporary dance performance for 16 dancers with 6 choreographers. 1 year development from concept to performance. Gasworks Theatre Melbourne. Australia.

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## PUBLICATIONS

1. Makdissi, R., Atkins, Z.S., Clemann, N., **Karavarsamis, N.** and Robert, K.A.. A skink in grasshopper's clothing: utilisation of Bayesian mimicry in juvenile Guthega skinks as an antipredator defence (*under review*).
2. **Karavarsamis, N.**, Guillera-Aroita, G., Huggins, R.M. and Morgan, B. (2020). How can the score test be consistent?. *Australian and New Zealand Journal of Statistics*, 62(1):94–115. [doi.org/10.1111/anzs.12288](https://doi.org/10.1111/anzs.12288).
3. **Karavarsamis, N.** (2019). Estimating Occupancy and Fitting Models with the Two-Stage Approach. H. Nguyen (Ed.): Research School of Statistics and Data Science, RSSDS 2019, Communications in Computer and Information Science (CCIS) vol. 1150, pp. 68–80, 2019. Springer

Nature Singapore Pte Ltd. doi.org/10.1007/978-981-15-1960-4\_5

4. **Karavarsamis, N.** and Huggins, R.M. (2019). A two-stage approach to the analysis of occupancy data I. The Homogeneous case. *Communications in Statistics - Theory and Methods*. doi.org/10.1080/03610926.2019.1607385.
5. **Karavarsamis, N.** and Huggins, R.M. (2019). A two-stage approach to the analysis of occupancy data II. The Heterogeneous case. *Computational Statistics and Data Analysis*, 133:195–207. doi.org/10.1016/j.csda.2018.09.009.
6. Bagnall, J., Jones A., **Karavarsamis, N.** and Nguyen H. (2019). The Fully-Visible Boltzmann Machine and the Senate of the 45th Australian Parliament in 2016. *Journal of Computational Social Science*. <https://dx.doi.org/10.2139/ssrn.3287903>.
7. **Karavarsamis, N.** (2015). Methods for Estimating Occupancy. PhD thesis.
8. Mara, D., Hamilton, A.J., Sleight, A., **Karavarsamis, N.**, Razak Seidu. (2015). Tools for Risk Analysis: Updating the 2006 Guidelines. Wastewater Irrigation and Health. Earthscan.
9. **Karavarsamis, N.**, Robinson, A. P., Hepworth, G., Hamilton, A.J. and Heard, G.W. (2013). Comparison of four bootstrap-based interval estimators of species occupancy and detection probabilities. *Australian and New Zealand Journal of Statistics*, 55(3):235–252.
10. Kreidl, S., Holmes, R., Partington, D., **Karavarsamis, N.** (2012). The effect of calcium and nitrogen nutrition on the development of postharvest rots in pak choi. *Acta horticulture*, 944:73–82.
11. Mara, D., Hamilton, A.J., Sleight, A., **Karavarsamis, N.** (2011). Tools for risk assessment: updating the 2006 WHO guidelines. *Wastewater irrigation and health: Assessing and mitigating risk in low-income countries*. Earthscan, IDRC and IWMI. Editors: P. Drechsel and C.H.Scott and L. Easchild-Sally ajnd M. Redwood and A. Bahri (89–100).
12. **Karavarsamis, N.** and Hamilton, A.J. (2010). Estimators of Annual Probability of Infection for quantitative microbial risk assessment. *Journal of Water and Health*, 8(2):365–373.
13. **Karavarsamis, N.** (2010). Safeguarding our species. *The Age; The Voice*, June, 6(6). <http://voice.unimelb.edu.au/volume-6/number-6/safeguarding-our-species>.
14. Mara D, Hamilton AJ, Sleight A, **Karavarsamis N.**, Seidu R. (2009). Tools for risk analysis: Updating the 2006 WHO guidelines. In *Wastewater Irrigation and Health: Assessing and Mitigating Risk in Low-income Countries*. 89-100. (Book Chapter).
15. **Karavarsamis, N.**, and Hamilton, A.(2008). Estimators of Annual Probability of Infection. Australian Statistical Conference (ASC2008), Australian Mathematical Sciences Institute (AMSI) and Statistical Society of Australia Inc. (SSAI).
16. Porter, I.J., Trinder, L., Partington, D., Banks, J., Smith, S., Hannah, M., **Karavarsamis, N.** (2006). Special report validating the yield performance of alternatives to Methyl Bromide for pre-plant fumigation. *TEAP/MBTOC Special Report, UNEP Nairobi*.
17. **Karavarsamis, N.** (2005). Control of downy mildew of grapevines by boosting their natural defence system, Final Report to Grape and Wine Research and Development Corporation 2004 – 2005.
18. **Karavarsamis, N.** (2004). Reducing Spoilage and Contamination Risks of Fresh Vegetables in China and Australia, Chinese Collaboration.
19. **Karavarsamis, N.** (2004). Submission (to Australian Government) for the Revised Draft Import Risk Analysis Report for Apples from New Zealand.
20. Giles, G., English, D., **Karavarsamis, N.**, Thursfield, V. (2003). Cancer Survival in Victoria – Relative survival for selected cancers diagnosed from 1982 to 1997 with follow-up to 2000. *Cancer Council Monographs*.
21. **Karavarsamis, N.** (2003). Survival in women in the Victorian breast survey management cohorts: 1986-1995. *Cancer Council Monographs*.
22. **Karavarsamis, N.** (2003). Nutrient Analysis Software – Stata language. Commercial Release of Software.

23. Roberts, S., **Karavarisamis, N.**, English, D., Giles, G. (2001). Hepatocellular carcinoma in Victoria Australia: survival and prognostic factors. 53rd Annual Meeting of the Association for the Study of Liver Diseases (AASLD), Boston, Massachusetts. *Hepatology*. (Conference proceedings)