



Curriculum Vitae

EDUCATION HISTORY

- 2015 Master of Higher Education (Leadership and Management), Macquarie University
- 2009 Postgraduate Diploma in Higher Education (Learning and Teaching), Macquarie University
- 2005 Doctor of Philosophy in Statistics, University of Newcastle, Australia
- 1997 Master of Mathematics (Statistics) by Research, University of Newcastle, Australia
- 1990 Master of Business Administration Engineering, Technical University of Istanbul (ITU) Turkey
- 1988 Bachelor of Petroleum Engineering, Technical University of Istanbul (ITU) Turkey

EMPLOYMENT HISTORY

- 2016 – Present Associate Professor, Macquarie University
- 2010 – 2016 Senior Lecturer, Macquarie University
- 2006 – 2009 Lecturer, Macquarie University
- 2004 – 2005 Associate Lecturer, Macquarie University
- 2000 – 2004 Casual Tutor, Macquarie University
- 2000 Research Assistant, NSW Department of Crime Statistics, Sydney
- 1994 – 1997 Casual Tutor, University of Newcastle

AWARDS, PRIZES AND FELLOWSHIPS & TEACHING AWARDS, PRIZES AND FELLOWSHIPS

- 2022 Juárez Lincoln Martí (JLM) Award for International Educator for the International Congress of Statistical Education ICOTS-11
- 2021 Faculty of Science and Engineering, Excellence Awards for Inter-Departmental Collaboration – FOSE3000 Team, Macquarie University
- 2017 Vice Chancellor's Award for Programs that Enhance Learning, Joint recipient – Professional and Community Engagement (PACE) unit Convenor, Macquarie University
- 2017 Excellence in Research: Five Future-Shaping Research Priorities (Healthy People), MS Biomarker Team member, Macquarie University
- 2017 Eureka Prize J&J Innovation in Medical Research (Finalist), MS Biomarker Team member, Australian Museum
- 2017 Association for Tertiary Education Management (ATEM) Award for Community Engagement (Highly Commended), a member of the collective behind Macquarie University's Professional and Community Engagement (PACE) program, ATEM
- 2017 Higher Education Award for Employability, a member of the collective behind Macquarie University's Professional and Community Engagement (PACE) program, Australian Financial Review (AFR)
- 2017 Australian Awards for University Teaching (AAUT), Joint recipient – PACE unit Convenor, Universities Australia (UA) - Department of Education and Training
- 2014 – 2016 Honorary Associate, Faculty of Dentistry, University of Sydney
- 2009 – 2021 Research Fellow, Australasian Research Institute
- 2009 Australian Learning and Teaching Council (ALTC)'s Citation for Outstanding Contribution to Student Learning
- 2008 Vice-Chancellor's Citation for Outstanding Contribution to Student Learning, Macquarie University

LEADERSHIP AND ENGAGEMENT

Key Professional Positions and Contributions (since 2015)

- 2023 – current SSA History Standing Committee Member
- 2023 – current Woman in Technology Society (WinTECH) Invited Member
- 2022 – current Statistical Education Research Journal (SERJ), Advisory Board Member
- 2022 Australian Mathematical Sciences Institute (AMSI)/ Statistical Society of Australia (SSA) Data Science Review Reference Group Member
- 2022 -current International Statistical Institute Advisory Board on Ethics Member
- 2022-current Australian Academic Integrity Network Member
- 2022 Judge for the National Schools Poster Competition (SSAI)
- 2022 – Present Australasian Society for Computers in Learning in Tertiary Education (ASCILITE) Member
- 2021 – 2022 Association for Computing Machinery (ACM) Member
- 2021 – 2023 SSAI History Working Group Member
- 2021 Member of the ISI Special Interest Group on Data Science
- 2021 – 2023 President, International Association for Statistics Education
- 2021 Advance Higher Education Torch Relay for 'Celebrating success and addressing challenges in assessment'. Torch Bearer

2021 - current Editorial Board Member of Teaching Statistics - An International Journal for Statistics and Data Science Teaching
2020 Judge for the National Schools Poster Competition (SSAI)
2019 – 2021 President Elect, International Association for Statistics Education
2019 Guest Editor, Statistics Education Research Journal, Special Issue: Building future generations of statisticians
2019 – 2020 Member of the Nominations Committee, ISI, International Statistical Institute
2019 – 2022 Member of the Faculty of Science and Engineering Discipline Committee, MQ
2019 Member of MQRC funding application for the Centre for Data Science and Machine Learning
2018 Deputy Head of Department (February – July), Department of Statistics, MQ
2018 Judge for the National Schools Poster Competition (SSAI)
2018 IASE Executive election process committee member
2018 Member of MQRS finding application for Centre for Smart Data and Machine Learning
2017 – 2018 Member of the University Medal Committee, Macquarie University
2017 – 2018 Subcommittee member of IASE Executive for setting up the Advisory Board of Statistics Education Research Journal
2017 Judge for the National Schools Poster Competition (SSAI)
2016 Member of Academic Promotions Committee for Level B (Faculty of Arts)
2016 Judge for the National Schools Poster Competition (SSAI)
2016 Initiated the discussions for the inclusion of Statistics into Master of Data Science degree
2015 Member of Academic Promotions Committee for Level B (Faculty of Arts)
2015 International Jury member for IASE International Statistical Literacy Project (ISLP) Posters
2015 – 2019 Vice President, International Association for Statistics Education
2015 – 2018 Elected member of the Academic Senate Member, Macquarie University
2015 – 2016 Director of Teaching, Department of Statistics, Macquarie University
2014 Organised and facilitated meetings with the Department of Computing with the intention of starting a crossdisciplinary Data Science Major in 2016
2013 – 2016 Opening Real Science: Authentic mathematics and science learning for Australia Project Member – Statistics Module development
2013 – 2016 Member of the Senate Learning and Teaching Committee (SLTC), MQ
2013 – 2014 Deputy Associate Dean Learning and Teaching, FSE, Macquarie University
2013 – 2014 (Alternate) Member of the Academic Standards and Quality Committee (ASQC), MQ
2011 – 2012 Member of the Teaching Excellence Academy (TEA), Macquarie University
2011 – 2012 Member of the W5B Macquarie Theatre Redevelopment Project Control Group, MQ
2011 Member of ALTC Learning and Teaching Academic Standards (LTAS) - Science project group, Macquarie University
2010 – 2014 Member of the Faculty Standards and Quality Committee (FSQC), FSE, MQ
2010 – 2012 Member of the Dow Corning Refurbishment Project Group (EMC Post Graduate Coursework Hub), Macquarie University
2010 – 2012 Member of ALTC Peer Evaluation of Learning and Teaching (PELT) Project Group, Macquarie University
2009 – 2016 Member of the Faculty of Science Learning and Teaching Committee (FLTC), MQ
2009 Member of Curriculum Review Committee, Department of Statistics, Faculty of Science, MQ
2008 – 2009 Council Member, Statistical Society of Australia (SSAI), NSW branch
2006 – 2015 Director of Undergraduate Studies, Department of Statistics, Macquarie University

Conference organisation (since 2015)

2023 64th ISI World Statistics Congress – Ottawa, Canada, Organiser of a Short Course
2022 - 2023 IASE 2023 Satellite Conference: Fostering Learning of Statistics and Data Science, Toronto, Canada, International Program Committee (IPC) member
2022 – 2023 Australian Statistical Conference (ASC2023), Wollongong, Co-chair of the Local Organising Committee
2022 – 2023 11th Australian Conference on Teaching Statistics (OZCOTS), Wollongong, Australia, Chair of the International Program Committee (IPC)
2022 International Conference on Teaching Statistics (ICOTS 11), Rosario, Argentina, International Program Committee (IPC) member
2021 IASE 2021 Satellite Conference: Statistics Education in the Era of Data Science, Online, International Program Committee (IPC) member
2021 10th Australian Conference on Teaching Statistics (OZCOTS): Statistics education in today's world, Online, Program Chair
2021 Australian and New Zealand Statistical Conference (ANZSC), Online, Program Committee member
2019 62nd ISI World Statistics Congress - Kuala Lumpur, Malaysia, Organiser of an Invited Paper Session
2018 ICOTS 10, Kyoto Japan, Chair of Topic 5: Statistics education in the workplace, government and across disciplines
2017 IASE 2017 Satellite Conference: Teaching Statistics in a Data Rich World, Rabat, Morocco, Chair of International Program Committee
2017 61st ISI World Statistics Congress - Marrakesh, Morocco, Organiser of a Lunch Roundtable Session
2015 60th ISI World Statistics Congress - Rio de Janeiro, Brazil, IASE representative on the "Short Course Committee"

PROFESSIONAL MEMBERSHIPS

2021 – Present Member, IASC, International Association for Statistical Computing
2015 – Present Elected member, ISI, International Statistical Institute
2007 – Present Member, IASE, International Association for Statistics Education
2003 – Present Member, Statistical Society of Australia (SSA), NSW branch

INVITED PRESENTATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES

- 2023** Invited Speaker - Committee on Women in Statistics, International Statistical Institute
- 2023** Invited Speaker - 20th International Conference on Statistical Sciences, ISOSS, Online, Pakistan
- 2022** Organiser and Speaker of the Closing Ceremony of the Eleventh International Conference on Teaching Statistics (ICOTS11), Rosario, Argentina.
- 2022** Organiser and Speaker of the Gala Dinner of the Eleventh International Conference on Teaching Statistics (ICOTS11), Rosario, Argentina.
- 2022** Organiser and Speaker of the Opening Ceremony of the Eleventh International Conference on Teaching Statistics (ICOTS11), Rosario, Argentina.
- 2022** Invited Session Discussant for “Statistical Problem Solving: The Art and Science of Learning and Teaching from Data”: StatCon2022: Statistics Education Workshop, Kruger National Park, South Africa
- 2022** Keynote Speaker “Interactive Online Class for Statistical Thinking – Teaching Consulting Skills to Statistics students as a Credit Bearing Module” StatCon2022: Statistics Education Workshop, Kruger National Park, South Africa
- 2021** Invited Session Discussant: 63rd World Statistics Congress (IPS78), Virtual Conference
- 2021** Keynote Speaker: Machine Learning Workshop, PISTAR (Pak Institute of Statistical Training And Research), Online, Pakistan
- 2020** Keynote Speaker: Machine Learning Workshop, PISTAR, Online, Pakistan
- 2020** Keynote Speaker: StatCon2020: Statistics Education Workshop, Online, South Africa
- 2020** Invited Panel Discussant: StatCon2020: Statistics Education Workshop, Online, South Africa
- 2020** Keynote Speaker: Celebration of World Statistics Day, PISTAR, Online, Pakistan
- 2019** Invited Session Discussant: 62nd World Statistics Congress (IPS287), Kuala Lumpur, Malaysia
- 2019** Invited Speaker: 62nd World Statistics Congress (IPS147: I), Kuala Lumpur, Malaysia
- 2019** Invited Speaker: 62nd World Statistics Congress (IPS147: II), Kuala Lumpur, Malaysia
- 2019** Special Invited Session Speaker: 62nd World Statistics Congress (SIPS372), Kuala Lumpur, Malaysia
- 2018** Invited Speaker: The Tenth International Conference on Teaching Statistics (ICOTS10) (IPS I), Kyoto, Japan.
- 2018** Invited Speaker: The Tenth International Conference on Teaching Statistics (ICOTS10) (IPS II), Kyoto, Japan.
- 2017** Keynote Speaker: First Year in Mathematics (FYiMaths) NSW Workshop, Western Sydney University, Sydney, Australia
- 2017** Invited Speaker: 61st World Statistics Congress (IPS153), Marrakesh, Morocco
- 2017** Invited Speaker: 61st World Statistics Congress (IPS130), Marrakesh, Morocco
- 2017** Invited Speaker: ITU Petroleum and Natural Gas Engineering Department, Istanbul, Turkey
- 2017** Invited Speaker: ITU Mathematics Department, Istanbul, Turkey
- 2017** Invited Speaker: Department of Statistics, Yildiz Technical University, Istanbul, Turkey
- 2017** Invited Speaker: Congreso Interamericano de Estadística, Rosario, Argentina
- 2017** Invited Speaker: Faculty of Agronomy, University of Buenos Aires, Argentina
- 2015** Invited Speaker: 60th World Statistics Congress (IPS043: I), Rio de Janeiro, Brazil
- 2015** Invited Speaker: 60th World Statistics Congress (IPS043: II), Rio de Janeiro, Brazil
- 2014** Invited Speaker: ISDS 2014 - Side, Turkey
- 2014** Invited Speaker: The Ninth International Conference on Teaching Statistics (ICOTS9) (IPS I), Flagstaff, Arizona, USA
- 2014** Invited Speaker: The Ninth International Conference on Teaching Statistics (ICOTS9) (IPS II), Flagstaff, Arizona, USA
- 2014** Invited Speaker: The Ninth International Conference on Teaching Statistics (ICOTS9) (IPS III), Flagstaff, Arizona, USA
- 2013** Invited Session Discussant: 59th World Statistics Congress (IPS032), Hong Kong
- 2013** Invited Speaker: 59th World Statistics Congress (STS030: I), Hong Kong
- 2013** Invited Speaker: 59th World Statistics Congress (STS030: II), Hong Kong
- 2013** Invited Speaker: 59th World Statistics Congress (STS030: III), Hong Kong
- 2012** Invited Discussant: IASE 2012 Roundtable Conference, Cebu City, The Philippines

SUCCESSFUL GRANT APPLICATIONS AND CONSULTANCIES

- 2022** Cancer Council NSW, Protein Biosignatures for Predicting Recurrence of Stage II Colorectal Cancer, Ahn, C., Baker, M., Chapuis, P., Solomon, M., Chan, C., Shin, J., Mohamedali, A., Bilgin (A Primary Chief Investigator), A. & Guillemin, G. \$450,000.00 1/01/23 → 31/12/25 (RG 23-06)
- 2021** National Health and Medical Research Council (NHMRC), An integrated platform for the early diagnosis and treatment of biotoxin-related illnesses in Australia like Chronic Inflammatory Response Syndrome (CIRS), Guillemin, G., Gupta, S., Kenna, T., Heng, B., Ahn, C., Bilgin, A. (A Chief Investigator), Vuyisich, M., Rudd, C., Di Lizio, S., Watson, A., Law, T., Kim, J. & Astrid Jimenez-Barbosa, I., \$968,647 (APP2015197)
- 2020** Australian Council of Deans of Information and Communications Technology (ALTA) 2020 Academic Integrity Grant, Academic Integrity Policies, Procedures, and Good Practices for Online Assessment in Computing Education, Jha, M., Leemans, S., Berretta, R., Bilgin, A., Myers, T., Sheard, J., Simon., \$26,727, 2021-2022.
- 2019** Novus Foundation, The efficacy of computerised cognitive remediation therapy to improve cognition and symptoms of depression in adolescents, Grant, R., Berg, J., Merzenek, M., Bilgin, A.A., \$38,000, 2019-2021.
- 2019** Faculty of Science and Engineering Learning and Teaching Innovation Grant, Authentic problem solving in Business Statistics, Bilgin, A., Prvan, T., \$2,000.
- 2018** Financial Literacy Australia Grants, The nexus between Retirement Villages and Aged Care, Kyng, T., Pitt, D., Purcal, S., Zhang, C., Jepsen, D., Bilgin, A.A., \$180,000, 2019-2020.
- 2017** OSP, Macquarie University, Analysis of kynurenine pathway in breast cancer & Threshold concepts in statistics, Bilgin, A., \$8,094.
- 2015** Novus Foundation, Do omega-3 levels influence aggressive and other related psychological disorders in adolescents? A cross

- sectional and prospective study of a representative cohort of boys in the Australian juvenile justice system, Grant, R., Meyer, B., Byrne, M., Morris, M., Bilgin, A., \$20,000.
- 2014** Macquarie University Learning and Teaching Enhancement Grant, Measuring staff workload associated with teaching, administering and supporting PACE units, Clark, L., Rowe, A., Bilgin, A., \$25,000.
- 2014** Professional and Community Engagement (PACE) Development Grant Scheme, Developing Assessment Rubrics for Self and Team Reflection and Partners' Evaluations of Students in Statistical Consulting (STAT399), Bilgin, A., Petocz, P., \$4,020.
- 2013** Department of Education, Skills and Employment, Opening real science: Authentic mathematics and science education for Australia, Mulligan, J., Pask, H., Hedberg, J., Smith, P., Bilgin, A., Dawes, J., Parker, Q., Herberstein, M., Power, M., Jamie, I., O'Reilly, S., O'Neill, C. J., Charters, W., Papic, M., Bower, M., Cavanagh, M., Stewart, K., Wood, L., Bridge, D., An, S., Kennett, C., Highfield, K., De Nobile, J., Diao, M. M., Tilley, G., Irvine, P., Jones, H., Stupar, M., Frew, D. & Cody, C., [Macquarie University portion \$364,440] \$2,300,000, 2013-2015.
- 2013** Macquarie University Innovation and Scholarship Program, Exploring a Model for Peer Learning in Statistics, 2013, Petocz, P. Bilgin, A., \$9,166.
- 2013** Macquarie University Diversity Grant, Establishing a women in Engineering and Science student group, Dadd K., Bilgin A., Dawes J., De Marco O., Fanning T., Herberstein M., Jamie J., Kane D., Kennett C., Lang C., Nevalainen H., Richards D., Rushmer T., \$10,000.
- 2013** OSP, Macquarie University, Structural Equation Modeling for determining the risk factors of depression in adolescents, Bilgin, A., \$0.
- 2012** Macquarie University Innovation and Scholarship Program, Exploring a Model for Peer Learning in Statistics, Petocz, P. Bilgin, A., \$6,900.
- 2012** Faculty of Science Teaching & Learning Grants, Enhancing student engagement through small group pedagogies in a large class environment: a case study of the C5C Forum, Bilgin, A., Bulger D., Gudlaugsdottir S., \$4,000.
- 2012** Faculty of Science Teaching & Learning Grants, Developing a New Statistical Model for Measuring the Socio-economic Status of Higher Education Students, Bilgin, A., Sofronov, G., \$5,500.
- 2011** BUPA Health Foundation, Oxidative stress in the CSF across the life span, Grant R., Guest J., Bilgin A., Garg M. Project Team Member who is responsible for designing the statistical aspects of the research, analysis of the collected data and writing and editing publications, \$ 172,654, 2011-2014.
- 2011** Macquarie University Learning and Teaching Priority Grant, Enhancing student engagement through small group pedagogies in a large class environment: a case study of the C5C Forum, Robertson G., Bilgin A., Gudlaugsdottir S., Bulger D. et al., \$30,000.
- 2011** Learning and Teaching Centre Moodle Exemplar Unit Development Grant, Developing a unit in Moodle, Bilgin, A., \$2,500.
- 2011** Australasian Research Institute, Statistical Services, Bilgin, A., \$3,000.
- 2010** Department of Education, Skills and Employment, NSW, Analysis of ACARA Methodologies to Enhance the validity of ICSEA (Index of Community Socio-Educational Advantage), Bilgin, A., Jersky, B., Sofronov, G., \$1,500.
- 2009** Faculty of Science Teaching & Learning Grants, Academic Honesty and Assessment Practices at MQ – a Pilot Study, Busch, P., Nayak, A., Orgun, M., Shankaran, R., Varadharajan, V., Mukhopadhaya, P., Harvey, M., Bilgin, A., Brown, S., \$5,000.
- 2009** OSP, Macquarie University, Power comparisons of two sample parametric and rank test in skewed data with zero spike and ties, Bilgin, A., \$0.
- 2008** Novus Foundation, Identification of Neurobiological correlates in the incidence of adolescent depression. Grant R., Morris M., Guest J., Bilgin A., Garg M. Project Team Member who is responsible for designing the statistical aspects of the research, analysis of the collected data and writing and editing publications, \$100,000, 2008 – 2009.
- 2008** EFS Learning Excellence and Development Grant, Learning in Statistics: Does it get deeper or shallower over the years?, Bilgin, A., \$3,000.
- 2007** Novus Foundation, Investigation of diet and lifestyle factors associated with adipocytokine production in adolescent females: implications for the development of type 2 diabetes, Grant R., Morris M., Bilgin A. Project Team Member who is responsible for designing the statistical aspects of the research, analysis of the collected data and writing and editing publications, \$90,000, 2007 – 2009.
- 2007** Macquarie University Competitive Grants Learning and Teaching, Analysis of PhD Completion Performance in EFS 1982 to 2007, Bilgin A., \$10,480.
- 2007** Macquarie University New Staff Grant, Peer Assessment in Statistics, Bilgin A., \$ 9,810.
- 2007** Department of Paediatric Dentistry & Orthodontics, Westmead Hospital, Statistical Consulting, Bilgin, A., \$1,655.
- 2006** EFS Learning Excellence and Development Grant, Approaches to Learning in Statistics: Cross Cultural Learning Behaviour Among University Students, Bilgin A., Crowe S., \$3,000.
- 2006** EFS Learning Excellence and Development Grant, WebSTAT use for online quizzes in a first year statistics course, Middledorp J., McNeil D., Karpin A., Owens L, Luo K, Bilgin A., \$3,000.
- 2006** EFS Flagship Grant, Web-Based Statistical Program Development, Bilgin A., Luo K., Wong F., McNeil D., Hudson M., Wood G., \$22,000.
- 2005** Macquarie University Teaching Development Grant, LAMS and Statistics Pedagogy: Strategies and Materials, Petocz P, Bilgin A., \$8,000.
- 2005** Sydney West Area Health Service, Statistical Consulting, Bilgin, A., \$1,200.
- 2004** Sanitarium Health Food Company (industry sponsor), The role of exercise and a vegetable rich diet on key biochemical and physiological markers of cardiovascular health in 14-15 year old students, Grant R., Bilgin A., Zeuschner C., Ashton J., Hokin B., Baines S., LeRossignol-Grant C. Project Team Member who is responsible for designing the statistical aspects of the research, analysis of the collected data and writing and editing publications, \$27,000.

HDR SUPERVISION AND COMPLETIONS

2023 - current	Katerine Shead, PhD, A Synchronic and Diachronic Analysis of Child Burial in Southern Mesopotamia from the EDII to Isin-Larsa Periods, Associate Supervisor
2023 – starting	Hafiz Muhammad Tahir, PhD, Exploring psychoinformatics for human action prediction before happening of an event, Associate Supervisor
2021 – current	Salma Banu Nazeer Khan, PhD, Ethics in Data Science, Associate Supervisor
2018 – current	Charise Deveney, PhD, Perinatal maternal wellbeing, Joint Supervisor (UNSW)
2019 – 2022	Amal Abdulrahman, PhD, Empathic agents to Support Understanding Science in a Virtual Learning, Associate Supervisor
2016 – 2022	Hedieh Ranjbar, PhD, Emotion-Aware Empathic Agents, Associate Supervisor
2019	Haiyun Zhang, MRes, Using machine learning techniques to increase the accuracy of classification in the process of models of care to increase the efficiency of emergency department, Principal Supervisor
2017 – 2020	Di Wang, PhD, Connecting supply and demand through portals: A study of open government data in China, Co-Supervisor
2015 – current	Rinat Akter, PhD, Markov multi-state models and their penalised likelihood estimations, Co-Supervisor
2015 – 2019	Puang-Ngern Busayasphee, PhD, The Estimation of Semiparametric Generalized Linear Models, Associate Supervisor
2014	Puang-Ngern Busayasphee, MRes, Big data and its implications for the statistics profession, Principal Supervisor
2013 – 2019	Amara Atif, PhD, Learning analytics to support decision making in higher education, Co-Supervisor
2010 – 2016	Jade Guest, PhD, Correlation of key markers of oxidative stress and inflammation in the human CSF across a wide age range with diet, lifestyle and psychosocial factors, Joint Supervisor (UNSW)
2010 – 2016	Ana Ximena Halabi Echeverry, PhD, Models of Decision Making for the Integration of Ports Using AI, Co-Supervisor
2007 – 2012	Susan Bruck, PhD, The Respiratorily Induced Cybersickness Effect, Associate Supervisor
2007 – 2009	Eric Fassbender, PhD, The effect of music on memory for facts learned in Virtual realities, Associate Supervisor

MASTER OF APPLIED STATISTICS PROJECT SUPERVISION AND COMPLETIONS

2019	Syed Shoaib Ahmed, Using Dynamic Programming to find solution to Stochastic Control Problem (Optimal Consumption, Portfolio Selection and Life Insurance) for an Agent with a certain Lifetime in a Time Continuous Problem with varying liquidity of assets under consideration
2019	Gregory Lawrence, Rain in Australia, Prediction
2019	Maysaa Daher, Use data mining and machine learning techniques to predict mortality rates for clients with traumatic brain injury (TBI) in an intensive care unit (ICU) during the period 2008-2013
2018	Sam Xiao, Exploring patterns of antibiotic resistance in Escherichia coli (BCA)
2015	Zaara Azad, PwC Australia's Social Networks on Twitter
2015	Yang Zhou, Data analytics in cluster computing framework Apache Spark
2015	Victor Sirinopakul, Use of data mining techniques to predict complications in cochlear implant recipients
2015	Gail Best, Student motivated peer learning in statistics: Questionnaire development and testing
2015	Brett Baczelis, Students' perceptions as a gauge of the impact of learning spaces on the value and quality of learning experiences at university level: A structural equation modelling approach
2015	Edward Kim, Twitter Sentiment Mining and Support Vector Machines: A comparison of Kernel methods
2015	Xi (Selina) Cook, Research Project on measuring Socio-Economic Status for higher education students
2015	Duc (Anthony) Luyen, Predicting Inertia Rentals: A Classification Approach
2014	Eyal Karin, Data mining for change in clinical samples, undergoing internet based cognitive behavioural therapy
2014	Sarita Bista, The Effects of Biochemical, Diet and Lifestyle Factors on Adiponectin Levels in Adolescent Females: Implications for Insulin Resistance and Type 2 Diabetes
2014	Rosa Yessica Orozco Landa, Data reduction and Clustering for Outlier Detection
2014	Lap Yui Derek Ho, A Statistical Approach to Optimal Marketing Budget Allocation: Framework for a Decision Support System
2012 – 2013	Tamas Gantner, The Impact of Socio-Demographic Factors and Learning Approaches on the Expected Final Grades of Australian Statistics Students (8 Credit Unit)
2012	Verity Hampshire, Exploration of the Effects of Biochemical, Haematological, Morphological and Diet Variables on Adipocytokine Levels as Part of the Healthy Under The Skin You're In Project
2011	Simone Gangell, Profiling of Homicide offenders using data mining techniques
2010	Muhammad Elteibe, Predicting the Credit Card Family Offer: An Application of Data Mining in Marketing at the Commonwealth Bank of Australia
2009	Lei Zhu, A Statistical Analysis of Depression, Anxiety and Stress Scores among Adolescents in Sydney
2008	Loc Pham, Hotspotter versus Chi-Squared Automatic Interaction Detector (CHAID)
2007	Samantha Reading, Using Decision Trees, Logistic Regression and Artificial Neural Networks to Classify Application Fraud using SAS Enterprise Miner

THESIS EVALUATION

2022	PhD, Multivariate Approaches to Modelling Educational Data, University of Newcastle, Australia
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PUBLICATIONS AND OTHER RESEARCH OUTPUTS

Books

1. Wang, D., Richards, D., Bilgin, A. A., & Chen, C. (2022). *The Development of open government data: connecting supply and demand through portals*. Emerald Publishing Limited. <https://doi.org/10.1108/9781802623154>

Book Chapters

1. Bilgin, A.A., Howley, P. (2021). Using big data in a Master of Applied Statistics course. In Prodromou, T. (Ed). *Big Data in Education: Pedagogy and Research*. (pp. 65-87). Springer, Cham. 10.1007/978-3-030-76841-6_3
2. Howley, P., Wang, K., Bilgin, A.A. (2021). Big data for early learners. In Prodromou, T. (Ed). *Big Data in Education: Pedagogy and Research*. (pp. 41-64). Springer, Cham. 10.1007/978-3-030-76841-6_2
3. Atif, A., Jha, M., Richards, D., Bilgin, A.A. (2021). Artificial Intelligence (AI)-enabled Remote Learning and Teaching using Pedagogical Conversational Agents and Learning Analytics. In Caballe, S., Demetriadis, S., Gomez-Sanchez, E., Papadopoulos, P., Weinberger A. (Eds). *Intelligent Systems and Learning Data Analytics in Online Education*, (pp.3-29). Elsevier. <https://doi.org/10.1016/B978-0-12-823410-5.00013-9>
4. Puang-Ngern, B., Bilgin, A., Kyng, T. J. (2017). Comparison of Graduates' and Academics' Perceptions of the Skills required for Big Data Analysis. In Prodromou, T. (Ed). *Visualization and Statistical Literacy for Open and Big Data*, (pp. 126-152). IGI Global, Hershey USA. DOI: 10.4018/978-1-5225-2512-7.ch006.
5. Bilgin, A.A., Primi, C., Chiesi, F., Lopez, M.V., Fabrizio, M.C., Quinn, V.F., Gantner, T., Graham, P.L. (2014). A Comparison of First Year Statistics Units' Content and Contexts in a Multinational Study: With a Case Study for the Validation of ASSIST in Australia. In MacGillivray, H., Martin, M., and Phillips, B. (Eds) *Topics from Australian Conferences on Teaching Statistics: OZCOTS 2008-2012, Springer Science+Business Media, New York*. (<http://www.springer.com/statistics/book/978-1-4939-0602-4>)
6. Richards, D., Busch, P., Bilgin, A. (2010). The role of creativity (and creative behaviour) in identifying entrepreneurs. In Kollmann, T., Kuckertz, A. Stöckmann, C. (Eds) *E-Entrepreneurship and ICT Ventures: Strategy, Organization and Technology* (p.149-168). IGI Global. <https://doi.org/10.4018/978-1-61520-597-4.ch009>

Refereed Journal Articles

1. Wang, D., Richards, D., Bilgin, A. A., & Chen, C. (2023). Implementation of a conversational virtual assistant for open government data portal: Effects on citizens. *Journal of Information Science*. <https://doi.org/10.1177/01655515221151140>
2. Bilgin, A. A.B., Powell, A., Richards, A. (2022). Work integrated learning in data science and a proposed assessment framework. *Statistics Education Research Journal*, 21(2), 1-12 [12] Special Issue: Research On Data Science Education. <https://doi.org/10.52041/serj.v21i2.26>
3. De Nobile, J., & Bilgin, A. A. (2022). A structural model to explain influences of organisational communication on the organisational commitment of primary school staff. *Education Sciences*, 12(6), 1-16. [395]. <https://doi.org/10.3390/educsci12060395>
4. Abdulrahman, A., Richards, D., & Bilgin, A. A. (2022). Changing users' health behaviour intentions through an embodied conversational agent delivering explanations based on users' beliefs and goals. *Behaviour and Information Technology*. <https://doi.org/10.1080/0144929X.2022.2073269>
5. Abdulrahman, A., Richards, D., & Bilgin, A. A. (2022). Exploring the influence of a user-specific explainable virtual advisor on health behaviour change intentions. *Autonomous Agents and Multi-Agent Systems*, 36(1), 25. doi:10.1007/s10458-022-09553-x
6. De Nobile, J., & Bilgin, A. A. (2022). Impacts of School Communication on Job Satisfaction in Australian Primary Schools: A Structural Equation Model. *Frontiers in Education*, 7. doi:10.3389/educ.2022.832644
7. Richards, D., Lupack, S., Bilgin, A.A., Neil, B., Porte, M. (2021). Learning with the heart or with the mind: Using Virtual Reality to bring historical experiences to life and arouse empathy. *Behaviour & Information Technology*, DOI: 10.1080/0144929X.2021.2009571
8. Ranjartabar, H., Richards, D., Bilgin, A. A., & Kutay, C. (2021). First impressions count! The role of the human's emotional state on rapport established with an empathic versus neutral virtual therapist. *IEEE Transactions on Affective Computing*, 12(3), 788-800. <https://doi.org/10.1109/TAFFC.2019.2899305>
9. Whitford, M. F., Gore, D. B., Johnsson, M. T., Bilgin, A. A., Power, R. K., Richards, C., & Withford, M. J. (2021). A complementary validation of Egyptian faience jewellery reconstruction using elemental and statistical analyses. *Journal of Archaeological Science: Reports*, 38, 1-10. [103087]. <https://doi.org/10.1016/j.jasrep.2021.103087>
10. Wang, D., Richards, D., Bilgin, A. A., & Chen, C. (2021). Advancing open government data portals: a comparative usability evaluation study. *Library Hi Tech*. <https://doi.org/10.1108/LHT-10-2020-0250>
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75. Bilgin, A., Sofronov. (2012) Developing a New Statistical Model for Measuring the Socio-economic Status of Higher Education Students. *Learning and Teaching Week, Macquarie University. 17-21 September 2012.*
76. Petocz, P., Bilgin, A., Reid A. (2012) Exploring Peer Learning: student to student, lecturer to lecturer. *Learning and Teaching Week, Macquarie University. 17-21 September 2012.*
77. Bulger, D., Bilgin, A., Gudlaugsdóttir, S., Robertson, G. (2012) Enhancing student engagement through small group pedagogies in a large class environment. *Learning and Teaching Week, Macquarie University. 17-21 September 2012.*
78. Bilgin A. (2012) Discussant. IASE 2012 Roundtable Conference: Technology in Statistics Education: Virtualities and Realities. Cebu City, The Philippines, 2-6 July 2012 (Invited).
79. Bilgin A. (2012) First year statistics students across three continents: similarities and differences. *OZCOTS 2012 "Statistics education for greater statistics". Adelaide, Australia, 11-13 July 2012.*
80. Bilgin, A. (2012) Data Mining Workshop. (*Half a day workshop for MQ Analytics Teams*) 5 June 2012.
81. Phillips S., Bilgin A., Stewart P. (2012) A Survey of practice and attitudes of Australasian anaesthetists to neuromuscular transmission monitoring in 2011. *Proceedings of the Australian Society of Anaesthetists National Scientific Congress. Australian Society of Anaesthetists. Hobart, 29 Sep – 2 Oct 2012.*
82. Bilgin A., Jersky B., Petocz P. (2011) A Statistical Consulting Capstone Unit: What to Assess? *Volcanic Delta, The 8th Delta Conference on the teaching and learning of undergraduate mathematics and statistics. Rotorua, New Zealand, 27 November – 2 December.*
83. Bilgin A., (2011) STAT828 Data Mining Moodle. *Faculty of Science iLearn Showcase, Macquarie University. 2 November 2011.*
84. Bilgin A., (2011) STAT828 Data Mining Moodle. Exemplar Showcase Session. *Learning and Teaching Week, Macquarie University. 19-23 September 2011.*
85. Bilgin A. Jersky B., Petocz P. (2011) Reflections on designing a statistical consulting capstone unit. *Learning and Teaching Week, Macquarie University. 19-23 September 2011. Quality in Teaching Session.*
86. Gudlaugsdottir S., Bulger D., Bilgin A. (2011) Collaborative learning in a quantitative discipline. *Learning and Teaching Week, Macquarie University. 19-23 September 2011. Quality in Teaching Session.*
87. Bilgin, A., Mukhopadhyaya, P. (2011) Academic Honesty and Assessment Practices at Macquarie University - A Pilot Study. *Academic Integrity Symposium. 6 July 2011, North Ryde, Australia.*
88. Pope, B., Mitsakos, K., Bilgin, A., Hokin, B., Grant, R. (2011) Predicting Overall Viability of Cord Blood Harvests. *The Haematology Society of Australia Meeting. 30 October – 2 November 2011, Sydney, Australia.*
89. Bilgin, A. (2010) Spectrum Approach to Mentoring @ MQ. *Learning and Teaching Week, Macquarie University. 20 -24 September 2010.*
90. Bilgin, A. (2010) Capstone Conversations. *Learning and Teaching Week, Macquarie University. 20 -24 September 2010.*
91. Bilgin, A. (2010) Adolescent Females using common weight control techniques show biochemical evidence of reduced nutrition. *Fat Studies: A critical dialogue conference. September 10-11, 2010, Sydney.*
92. Mac J., Bentley D., Bilgin A., Grant R. (2009) Characterisation of the effect of antioxidant supplementation on fatigue during exercise: potential role for NAD⁺(H), *Australian Society for Clinical and Experimental Pharmacology, National meeting, Sydney, November 2009.*
93. Bilgin A., Leslie J., Miller G. (2009) Data Mining: Introduction. *eResearch Australasia Workshops. November 9-13, 2009, Sydney.*
94. Cinar Y., Bilgin A. (2009) A study on peer assessment for teamwork in Petroleum Engineering education. *In Society of Petroleum Engineers Annual Technical Conference and Exhibition, New Orleans, USA, 4-7 October 2009, ATCE 2009 (Vol. 1, pp. 207-215). Society of Petroleum Engineers. <https://doi.org/10.2118/123166-MS>*
95. Bilgin A. (2009) Learning in Statistics: Does it get deeper or shallower? *Learning and Teaching Week, Macquarie University. 23 September 2009. Faculty of Business presentations.*
96. Bilgin A. (2009) Analysis of PhD completion performance in EFS 1982 to 2007. *Learning and Teaching Week, Macquarie University. 24 September 2009. Faculty of Science presentations.*
97. Grant R., Coggan S., Bilgin A., Smythe G. (2008) Age and circadian influences on picolinic acid concentrations in human cerebrospinal, fluid. *Australian Health and Medical Research Congress, Brisbane, November 2008.*
98. Luo K., Vemulapad S., Bilgin A. (2008) Statistical Learning: Making it easy for non-statisticians. *OZCOTS 2008 - 6th Australian Conference on Teaching Statistics, Melbourne, Australia, 3-4 July, 2008.*
99. Bilgin A., (2008) A Historical Survey of PhD Students in Statistics. *Proceedings of 2nd International Conference on Mathematics & Statistics, Athens, Greece, 16-19 June.*

100. Grant R., Bilgin A., Zeuschner C., Guy T., Ashton J., Brown S. (2008) Impact of a vegetarian diet on key markers of metabolic syndrome in a selected group of Australian children. *5th Int. Congress on Vegetarian Nutrition (ICVN) Loma Linda University, California, March 2008.*
101. Hokin B., Grant R., Bilgin A., Zeuschner C., Guy T., Ashton A. (2008) Vitamin B12 and homocysteine status in vegetarian and non vegetarian Australian adolescents. *5th Int. Congress on Vegetarian Nutrition (ICVN) Loma Linda University, California, March 2008.*
102. Grant R., Bilgin A., Zeuschner C., Guy T., Pearce R., Low A., Ashton J. (2007) Regular Nut Consumption Linked To Lower BMI in a Cohort of Australian Adolescents. *International Life Science Institute, 2nd Functional Foods Conference, Kuala Lumpur, Malaysia, November 2007.*
103. Bilgin, A. and Petocz, P. (2006) LAMS and statistics pedagogy. *The First International LAMS Conference 2006: Designing the Future of Learning, The LAMS Foundation, Sydney.*
104. Bilgin A.A.B. & McNeil D. (2004) Mapping correlations between socio-economic determinants and hospital outcomes. *IBC 2004 Satellite Workshop: Epidemiological Methods and Clinical Trials for Preventive Health. Macquarie University, Sydney.*
105. Bilgin, A.A.B. (2004) Estimating potential reductions in tonsillectomy rates. *Presented at the Workshop on Research Methods: Statistics and Finance, Wollongong University, Wollongong.*
106. Bilgin, A.A.B. (1997) A Statistical Review of Clinical Indicators for Hysterectomy, *Centre for Clinical Epidemiology and Biostatistics, University of Newcastle, Newcastle, Australia.*
107. Bilgin, A.A.B. (1994) Statistical Process Control in Hospitals, *Young Statisticians Workshop, Contemporary Developments and Opportunities in Statistics, 28-30 September 1994 - Sydney Harbour National Park Conference Centre, Australia.*

Conference Posters

1. Khan, S. B. N., Bilgin, A.A., Richards, D., Formosa, P. (2022). Infographics—Ethical Communication For Informed Decision-Making. In S. A. Peters, L. Zapata-Cardona, F. Bonafini, & A. Fan (Eds.), *Bridging the Gap: Empowering and Educating Today's Learners in Statistics: Proceedings of the 11th International Conference on Teaching Statistics (ICOTS11) [636]* International Association for Statistical Education. https://iase-web.org/icots/11/proceedings/pdfs/ICOTS11_636_BILGIN.pdf?1669867215
2. Heng, B, Tan, V.X.M., Bilgin, A.A., Gluch, L., Lim, E., Guillemin, G.J. (2018). Investigation of tryptophan metabolism in various human breast cancer subtypes. *15th International Society of Tryptophan Research (ISTRYP) Conference, 18-21 September 2018, Kyoto, Japan.*
3. Seyedsadjadi, N., Berg, J., Bilgin, A.A., Tung, C., Grant, R. (2018). A simple biomarker of redox balance is associated with lifestyle behaviours and Framingham risk score in a healthy human cohort. *20th International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants, June 25-26, 2018, Paris, France.*
4. Quinn, R., Graham, P., Karpin, A., Bilgin, A.A. (2018). Latent trait models highlight deficits in student understanding. *10th International Conference on Teaching Statistics (ICOTS 10): Looking Back, Looking Forward, Kyoto, Japan, 8-13 July 2018.*
5. Bilgin, A. (2016). Assessment in Undergraduate Statistics Capstone Unit. *13th International Congress on Mathematical Education, Topic Study Group 15: Teaching and learning of statistics, 24-31 July 2016, Hamburg, Germany.*
6. Mongkolsawan, W., Li, Q., Bilgin, A., Dalci, O., Darendeliler, M.A. (2014) The effects of mechanical stimuli during functional repositioning of the mandible in growing rats. *90th Congress of the European Orthodontic Society, 18-22 June 2014, Warsaw, Poland.*
7. Petocz, P., Newnham, A., Trussell, E., Warwick, K., Jarrett, A., Reid, A., Bilgin, A. (2013) Peer Learning in Statistics beyond the university curriculum. *Learning and Teaching Week, Macquarie University. 16-20 September 2013.*
8. Bilgin, A. Graham, P., Gantner, T. (2013) The factorial structure of the Approaches and Study Skills Inventory for Students (ASSIST) in Australia: An exploratory factor analysis. *59th World Statistics Congress, Hong Kong, 25-30 August 2013.*
9. Stewart, P., Huang, M., Li, Q., Bilgin, A., Kim, D., Phillips, S. (2013) Residual Neuromuscular Blockade and Critical Respiratory Events in PACU. *Australian Society of Anaesthetists National Scientific Congress: Anaesthesia: Art and Science, Canberra. 26-29 September 2013. (awarded one of three Smiths Medical / ASA for research award)*
10. Petocz, P., Bilgin, A., Reid A. (2012) Exploring Peer Learning: student to student, lecturer to lecturer. *Learning and Teaching Week, Macquarie University. 17-21 September 2012.*
11. Stewart, P., Phillips, S., Li, Q., Huang, M., Bilgin, A. (2012) Critical Respiratory Events and Residual Neuromuscular Blockade in the Post Anaesthetic Care Unit in 2012. *ANZCA ASM 2012 Evolution: Grow Develop Thrive. Perth, Western Australia. 12 – 16 May 2012.*
12. Pope B., Mitsakos K., Bilgin A., Hokin B., Grant R. (2011) Predicting Overall Viability of Cord Blood Harvests. *World Cord Blood Congress III. Rome, Italy. 27-29 October 2011.*
13. Pope B., Mitsakos K., Bilgin A., Hokin B., Grant R. (2011) Predicting Overall Viability of Cord Blood Harvests. *HAA – ISHAPD 2011. Sydney, Australia. 30 Oct – 2 Nov 2011.*
14. Bilgin, A. (2010) Analysis of PhD Completion Performance in a Business Studies. What factors impact on timely completion of a PhDs? *9th Quality in Postgraduate Research Conference: Educating Researchers for the 21st Century. Adelaide, 13-16 April 2010.*
15. Guest, J., Bilgin, A., Pearce, R., Baines, S., Zeuschner, C., Grant, C., Morris, M.J., Grant, R. (2009) Evidence for Under Nutrition in Adolescent Females using Routine Dieting Practices. *Nutrition Society of Australia and New Zealand 2009 Joint Annual Scientific Meeting. Newcastle, Australia. 8 - 11 December 2009.*
16. Pearce, R.E., Grant, R.S., Low, A.C., Bilgin, A.A.B., Baines, S.K., & Morris, M.J. (2008) Intake of selected foods by vegetarians and omnivores in the adult adipocytokine study. *Nutrition Society of Australia 32nd Annual Scientific Meeting. Adelaide, Australia. 30 Nov - 3 Dec 2008.*
17. Fassbender, E.; Richards, D.; Thompson, W. F.; Bilgin, A.; Taylor, A. (2008) VirSchool - Investigations of tempo and pitch manipulations on the way to finding an ideal soundtrack for learning in virtual realities and educational 3d games. *ICMPC10: The 10th International Conference on Music Perception and Cognition, Sapporo, Japan, 25-29 August 2008.*
18. Grant, R, Bilgin, A, Zeuschner, C, Guy, T, Ashton, J, Brown, S. (2006) The relative impact of a vegetarian diet on key markers of metabolic syndrome in a selected group of Australian adolescents. *10th International Congress on Obesity, Sydney, September 2006.*

TEACHING INNOVATION, ADMINISTRATION AND LEADERSHIP

Innovations & Curriculum Development (since 2015)

- 2022** Contributed to design and development of a conversational agent to increase students' understanding of Academic Integrity. This was adopted and trialed at MUC in 2022 and under trial by various Science units in 2023.
- 2022** Developed assessments to increase student engagement and retention in a large first year business statistics unit
- 2022** Improved the weekly participation quizzes for the first year business statistics unit to increase student engagement and retention by preventing the failure due to participation hurdle
- 2020** Utilised a conversational agent within iLearn to improve students' engagement with the unit guide
- 2021** Initiated and lead the development of weekly participation quizzes for the first year business statistics unit to increase student engagement
- 2021** Co-designer of a multidisciplinary (statistics and mathematics) Professional and Community Engagement (PACE) unit
- 2021** Co-designer of a multidisciplinary capstone unit for BSci degree
- 2020** Designed assessments for the first year business statistics unit to be fully online with some manual marking while ensuring academic honesty (note each sessions there are more than 1000 students in the unit)
- 2020** Statistics PACE unit is converted to fully online due to COVID-19 which was valued by the students and the clients.
- 2019** Developed and implemented online Class Tests for immediate feedback to a large first year service unit for business students by using R-exam package
Redesigned and improved learning experience and achievements in a third years engineering statistics unit by bringing in applied examples into curriculum, failure rate reduced and student satisfaction with the unit increased
- 2018** Started embedding UN Sustainable Development Goals into the first year Business Statistics unit
I set up an international project where New Colombo Plan Scholarships were available to three students to work on a real statistical project located in Viseisei Village in Fiji. I accompanied and supervised students for this project (STAT399). This was the first NCP scholarship for the department.
Developed guided tutorials for a master of applied statistics unit as a response to earlier student feedback to increase student engagement in their learning
- 2017** Build on employability skills embedded (such as team work) into a master of applied statistics unit by bringing in more employability skills (such as peer learning, self assessment) into unit's curriculum
- 2016** Designed and run the "*Statistics, your ticket to anywhere*" event which enabled us to increase our second and third year student numbers. The event ran in 2017, 2018 and 2019.
- 2015** Developed the process and created the first Departmental Student and Staff Nominated Learning and Teaching Award. Please note that both the Faculty and the University is now running a similar process.
Organised collaboration between social science and statistics PACE units' students to work on two community projects and further collaboration between environmental science and statistics PACE units' students to work on a PACE project

Teaching Administration Activities at the Departmental/Discipline Level

2021 – current	RPL Officer for 3000+ units within the Department
2020 - current	Member of Casual tutor selection committee
July 2014 – Dec 2018	Director of Major in Statistics
June 2015 – Jan 2017	Director of Teaching
Jan 2014 – July 2014	Convenor of Major in Decision Science
July 2013 – Dec 2013	Convenor of Major in Statistics
Jan 2009 – Jan 2017	Chair of Learning and Teaching Committee, Department of Statistics, Faculty of Science and Engineering
Apr 2006 – June 2015	Director of Undergraduate Studies, Department of Statistics
Aug 2005 – Dec 2015	Member of Postgraduate Coursework Committee, Department of Statistics, Faculty of Science
Feb 2009 – July 2009	Member of Curriculum Review Committee, Department of Statistics, Faculty of Science
2009 – 2012	Organised and facilitated the Departmental Unit Reviews
July 2004 – Dec 2008	Member of Learning and Teaching Committee, Department of Statistics, Division of EFS

Teaching Administration Activities at the Faculty Level

2022	BCom Course Review member
2021	EOI for ECR mentoring
2019 – 2022	Member of the Faculty of Science and Engineering Discipline Committee
2016	Initiated the discussions and successfully achieved the inclusion of Statistics into Master of Data Science degree
June 2015 – Feb 2017	Member of the Faculty of Science and Engineering Learning and Teaching Committee (FLTC)
Jan 2013- March 2014	Deputy Associate Dean of Learning and Teaching, Faculty of Science
Dec 2012	A member for the Faculty Learning and Teaching Awards decision making committee
Dec 2010	A member for the Faculty Learning and Teaching Awards decision making committee
Feb 2009 – Feb 2014	Member of the Faculty of Science Learning and Teaching Committee (FLTC)
April 2009 – Feb 2015	Member of the Faculty Standards and Quality Committee (FSQC), Faculty of Science

Teaching Administration Activities at the University Level

2023 – current	Mudang Dali Community of Practice member
2020- 2022	Waranara Mentor
2015 – 2018	Elected Academic Senate member

Nov 2018	Macquarie University International College(MUIC) Curriculum Redesign committee member
March 2015 – Dec 2016	Senate Learning and Teaching Committee 6x6 Working Group member
Feb – Oct 2015	Member of Faculty of Arts Level B Promotion committee
2013 – 2016	Opening Real Science: Authentic mathematics and science learning for Australia Project Member – Statistics Module development
2013 – 2016	Senate Learning and Teaching Committee member
2013 – 2018	PACE Coop member
2013 – 2018	PACE Pedagogy Research Group member
2009 – 2017	Bachelor of Social Science Board member
2013 – 2014	Academic Standards and Quality Committee alternate member
2013	Provided input to the evaluation of PACE Grant applications
2011- 2012	Teaching Excellence Academy (TEA) member
2011- 2012	Academic Standards and Quality Committee member
2011-2012	Alternate member for Senate Learning and Teaching Committee
2010 – present	Spectrum Mentor

TEACHING ACTIVITY

Macquarie University

2023 S1 STAT1250 Business Statistics – Lecturer in Charge (1000+ students)
2023 S1 FOSE3000 Making Science Work for You and Society: Capstone (New Unit) Unit Convenor (50+ students)
2022 S2 FOSE3000 Making Science Work for You and Society: Capstone (New Unit) Unit Convenor (100+ students)
2022 S2 MATH3599 Professional Practice for Mathematical Sciences (PACE Unit) Lecturer in Charge and Tutor (~30 students)
2022 S2 STAT1250 Business Statistics – Lecturer in Charge (1000+ students)
2022 S1 FOSE3000 Making Science Work for You and Society: Capstone (New Unit) Unit Convenor (50+ students)
2022 S1 STAT1250 Business Statistics – Lecturer in Charge (1000+ students)
2021 S2 MATH3599 Professional Practice for Mathematical Sciences (PACE Unit) Lecturer in Charge and Tutor (29 students)
2021 S2 FOSE3000 Making Science Work for You and Society: Capstone (New Unit) Co-designer, Unit Convenor (50+ students)
2021 S2 STAT1250 Business Statistics – Lecturer in Charge (1,100 students)
2021 S1 FOSE3000 Making Science Work for You and Society: Capstone (New Unit) Co-designer, Unit Convenor (50 students)
2021 S1 STAT1250 Business Statistics – Lecturer in Charge (1,200 students)
2020 S2 STAT1250 Business Statistics – Lecturer in Charge (1,047 students)
2020 S2 STAT3199 Consulting in Statistics Sciences (PACE Unit) Lecturer in Charge and Tutor (34 students)
2020 S1 STAT1250 Business Statistics – Lecturer in Charge (1,090 students)
2019 S2 STAT150 Business Statistics – Lecturer in Charge (1200 students)
2019 S1 STAT394 Probability, Random Processes and Statistics for Engineers Lecturer (41 students)
2019 S1 STAT828 Data Mining – Lecturer in Charge and Tutor (89 students)
2018 S2 STAT399 Consulting in Statistical Sciences (Capstone & PACE Unit) Lecturer in Charge and Tutor (40 students)
2018 S2 STAT150 Business Statistics – Lecturer in Charge (1200 students)
2018 S1 STAT828 Data Mining – Lecturer in Charge (37 students)
2017 S2 OSP
2017 S1 STAT828 Data Mining – Lecturer in Charge (30 students)
2017 S1 STAT278 Computer Simulation - Lecturer (25 students)
2016 S2 STAT399 Consulting in Statistical Sciences (Capstone & PACE Unit) Lecturer in Charge and Tutor (28 students)
2016 S2 STAT302 Graphics, Multivariate Methods and Data Mining – Lecturer in Charge (32 students)
2016 S1 STAT828 Data Mining – Lecturer in Charge (16 students)
2015 S2 STAT302 Graphics, Multivariate Methods and Data Mining – Lecturer in Charge (20 students)
2015 S2 STAT399 Statistical Consulting (Capstone & PACE Unit) Lecturer in Charge and Tutor (17 students)
2015 S1 STAT828 Data Mining – Lecturer in Charge & Tutor (20 students)
2014 S2 STAT302 Graphics, Multivariate Methods and Data Mining – Lecturer in Charge (15 students)
2014 S2 STAT399 Statistical Consulting (Capstone & PACE Unit) Lecturer in Charge and Tutor (15 students)
2014 S1 STAT728 Data Mining – Lecturer in Charge & Tutor (5 students)
2014 S1 STAT828 Data Mining – Lecturer in Charge & Tutor (40 students)
2013 S2 OSP
2013 S1 STAT728 Data Mining (New Unit) – Lecturer in Charge (5 students)
2013 S1 STAT828 Data Mining – Lecturer in Charge (30 students)
2012 S2 STAT399 Statistical Consulting (Capstone Unit) Lecturer in Charge and Tutor (9 students)
2012 S2 STAT279 Operations Research I – Lecturer (340 students)
2012 S1 STAT828 Data Mining – Lecturer in Charge & Tutor (32 students)
2012 S1 STAT279 Operations Research I – Lecturer & Tutor (437 students)
2011 S2 STAT399 Statistical Consulting (New Capstone Unit) - Co-designer, Lecturer in Charge and Tutor (9 students)
2011 S2 MIST812 Decision Support Systems -Lecturer in Charge & Tutor (6 students)
2011 S2 STAT279 Operations Research I – Tutor (351 students)
2011 S1 STAT828 Data Mining – Lecturer in Charge & Tutor (22 students)
2011 S1 STAT279 Operations Research I – Lecturer & Tutor (591 students)
2010 S2 MIST812 Decision Support Systems -Lecturer in Charge & Tutor (18 students)
2010 S1 STAT828 Data Mining – Lecturer in Charge & Tutor (22 students)
2010 S1 MIST800 Computer Applications in Business – Lecturer in Charge and Tutor (22 students)
2010 S1 STAT279 Operations Research I – Lecturer (669 students)

2009 S2 OSP
 2009 S1 STAT828 Data Mining – Lecturer & Tutor (17 students)
 2009 S1 MIST800 Computer Applications in Business – Lecturer (31 students)
 2009 S1 STAT279 Operations Research I – Lecturer (609 students)
 2008 S2 MIST812 Decision Support Systems -Lecturer in Charge & Tutor (20 students)
 2008 S2 STAT279 Operations Research I – Lecturer (491 students)
 2008 MGSM960 Information and Decision Analysis (Lecturer in Charge – Term 2, Lecturer Block 3)
 2008 S1 STAT828 Data Mining – Lecturer & Tutor (13 students)
 2008 S1 MIST800 Computer Applications in Business – Lecturer (24 students)
 2008 S1 STAT279 Operations Research I – Lecturer (643 students)
 2007 S2 MIST812 Decision Support Systems -Lecturer in Charge & Tutor (12 students)
 2007 S2 MIST800 Computer Applications in Business – Lecturer (20 students)
 2007 S2 STAT279 Operations Research I – Lecturer (495 students)
 2007 S1 STAT828 Data Mining – (New Unit) Co-designer, Lecturer & Tutor (15 students)
 2007 S1 MIST800 Computer Applications in Business – Lecturer (40 students)
 2007 S1 STAT279 Operations Research I – Lecturer (600 students)
 2006 S2 MIST812/STAT820 Decision Support Systems -Lecturer in Charge & Tutor (35 students)
 2006 S2 MIST800 Computer Applications in Business – Lecturer (25 students)
 2006 S2 STAT279 Operations Research I – Lecturer & Tutor (438 students)
 2006 S1 MIST800 Computer Applications in Business – Lecturer (50 students)
 2006 S1 STAT279 Operations Research I – Lecturer (250 students)
 2006 S1 STAT170 Introductory Statistics – Tutor (50 students)
 2005 S2 MIST811/STAT812 Information Management – Lecturer in Charge (22 students)
 2005 S2 MIST812/STAT820 Decision Support Systems – Lecturer (24 students)
 2005 S2 STAT279 Operations Research I – Lecturer (440 students)
 2005 S1 MIST812/STAT820 Decision Support Systems – Lecturer and Tutor (13 students)
 2005 S1 MIST800 Computer Application in Business – Lecturer and Tutor (63 students)
 2005 S1 STAT279 Operations Research I – Lecturer (688 students)
 2004 S2 MIST800 Computer Application in Business – Lecturer in charge (49 students)
 2004 S2 MIST812/STAT820 Decision Support Systems – Lecturer in Charge (47 students)
 2004 S2 MIST811/STAT812 Information Management – Tutor (24 students)
 2004 S2 STAT279 Operations Research I – Tutor (150 students)
 2004 S1 MIST800 Computer Application in Business – Tutor (89 students)
 2004 S1 MIST812/STAT820 Decision Support Systems – Tutor (30 students)
 2003 S2 MIST800 Computer Application in Business – Tutor (85 students)
 2003 S2 MIST812/STAT820 Decision Support Systems – Tutor (39 students)
 2003 S1 MIST800 Computer Application in Business – Tutor (113 students)
 2003 S1 MIST812/STAT820 Decision Support Systems – Tutor (50 students)
 2002 S2 MIST800 Computer Application in Business – Tutor
 2002 S2 MIST812/STAT820 Decision Support Systems – Tutor (44 students)
 2002 S1 MIST800 Computer Application in Business – Tutor
 2002 S1 MIST812/STAT820 Decision Support Systems - Tutor
 2001 S2 MIST800 Computer Application in Business – Tutor
 2001 S2 MIST812/STAT820 Decision Support Systems – Tutor
 2001 S1 MIST800 Computer Application in Business – Tutor
 2001 S1 MIST812/STAT820 Decision Support Systems - Tutor
 2000 S2 STAT889/MIST800 Computer Applications in Business - Tutor
 2000 S2 BUS 800 Electronic Commerce – Tutor
 2000 S1 STAT889/MIST800 Computer Applications in Business - Tutor
 2000 S1 BUS 800 Electronic Commerce – Tutor

Newcastle University

1997 S2 STAT510 Total Quality Management (PG Unit) – Tutor
 1997 S2 STAT310 Total Quality Management (UG Unit) – Tutor
 1997 S2 STAT120 Business Statistics and Quantitative Methods (UG Unit) - Tutor
 1997 S1 ECRM201/ECRM301 Business Research Methods (UG Unit) – Tutor
 1997 S1 STAT120 Business Statistics and Quantitative Methods (UG Unit)- Tutor
 1996 S2 STAT101 Introductory Statistics (UG Unit) - Tutor
 1996 S1 STAT205 Engineering Statistics (UG Unit) – Co-designer of tutorials & Tutor
 1996 S1 STAT101 Introductory Statistics (UG Unit) - Tutor
 1995 S2 STAT101 Introductory Statistics (UG Unit) – Tutor
 1995 S1 STAT101 Introductory Statistics (UG Unit) - Tutor
 1994 S2 STAT101 Introductory Statistics (UG Unit) – Tutor

JOURNALS AND CONFERENCES WHICH I REVIEWED PAPERS

2023 Teaching Statistics: An International Journal for Statistics and Data Science Teaching
2022 Teaching Statistics: An International Journal for Statistics and Data Science Teaching
2021 International Journal of Mathematical Education in Science and Technology
2021 IASE Satellite Conference
2021 Australian Conference on Teaching Statistics (OZCOTS 10)
2021 Teaching Statistics
2021 Statistical Education Research Journal
2021 Statistical Education Research Journal special issue
2021 Egitim ve Bilim
2020 Egitim ve Bilim
2020 International Journal of Innovation in Science and Mathematics Education
2020 South African National Research Funding Application
2020 Statistical Education Research Journal
2020 BMC Medical Education
2020 International Journal of Mathematical Education in Science and Technology
2019 Studies in Educational Evaluation
2019 Statistical Education Research Journal
2019 Journal of International Education in Business
2019 IASE Satellite Conference
2018 Studies in Higher Education
2018 Statistical Education Research Journal
2018 International Conference on Teaching Statistics (ICOTS 10)
2018 Australian Collaborative Education Network (ACEN)
2017 Education Research International
2017 Office of Environment and Heritage (Report)
2016 Studies in Higher Education
2016 Statistical Education Research Journal Special Edition
2016 Australian Conference on Teaching Statistics (OZCOTS 9)
2016 IASE Round Table Conference
2016 Education Research International
2016 29th Australasian Joint Conference on Artificial Intelligence (AI 2016)
2016 Australian Collaborative Education Network (ACEN): WIL 2020: Pushing the boundaries
2015 Statistical Education Research Journal special issue
2015 Statistical Education Research Journal
2015 Journal of Psychoeducational Assessment
2015 12th annual conference of the International Society for the Scholarship of Teaching and Learning (ISSOTL)
2015 Technology Innovations in Statistics Education
2015 IASE Satellite Conference
2015 13th International Conference of The Mathematics Education for the Future Project: Mathematics Education in a Connected World
2014 Studies in Higher Education
2014 Technology Innovations in Statistics Education
2014 South African NRF Competitive Support for Unrated Researchers Programme
2013 Advances in Decision Science
2013 PLOS ONE
2013 Statistical Education Research Journal
2013 International Journal of Human – Computer Studies
2013 IASE Satellite Conference
2013 International Conference on Teaching Statistics (ICOTS 9)
2013 L&T week abstracts at MQ
2012 IASE Round Table Conference
2011 Pacific Asia Conference on Information Systems (PACIS)
2011 Journal of Statistics and Data Science Education (formerly known as Journal of Statistics Education)
2011 IASE Satellite Conference
2011 The Higher Education Research and Development Society of Australasia (HERDSA) Conference
2010 Quality in Postgraduate Research Conference (QPR)
2010 International Conference on Teaching Statistics (ICOTS 8)
2009 Teaching and Teacher Education
2009 The Higher Education Research and Development Society of Australasia (HERDSA) Conference