

HOWARD D. BONDELL
Head of School and Professor of Statistical Data Science
Co-Director | Melbourne Centre for Data Science
School of Mathematics and Statistics | University of Melbourne

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- Education* **Rutgers University, Piscataway, NJ, USA**
Ph.D., Statistics, 2005.
Dissertation Title: *Robust Logistic Regression via the Case-Control Formulation.*
Advisor: *David E. Tyler*
- M.S.**, Statistics, 2002.
 B.A., Mathematics, 1998.
- Research Interests* Model selection, robust estimation, regularization, Bayesian methods, and all aspects of modelling and handling uncertainty in statistical and machine learning approaches.
- Professional Experience* **University of Melbourne, School of Mathematics and Statistics, VIC, Australia**
Head of School, 2021-present.
Co-Director, Melbourne Centre for Data Science, 2020-present.
Professor of Statistical Data Science, 2018-present.
- North Carolina State University, Department of Statistics, NC, USA**
Professor of Statistics, 2016-2017.
Director of Graduate Programs in Statistics and Data Science, 2013-2017.
Associate Professor of Statistics, 2011-2016.
Assistant Professor of Statistics, 2005-2011.
- University of Technology - Sydney, School of Mathematics and Statistics, NSW, Australia**
Visiting Associate Professor, 2013.
- Centre for Mathematics, Informatics, and Statistics, CSIRO, North Ryde, NSW, Australia**
Visiting Research Scientist, 2013.
- Rutgers University, Department of Statistics, USA**
Statistical Consultant, 2002-2005.
Instructor, 2000-2005.
- National Institutes of Health, Institute of Child Health and Human Development, USA**
Research Fellow, 2003. Division of Epidemiology, Statistics, and Prevention.
- Point Pleasant Borough High School, Point Pleasant, NJ, USA**
High School Mathematics Teacher, 1998-2000.

*Honours &
Awards*

Australian Research Council Future Fellowship, 2020-2024.

Project: *Statistical Modelling in the Era of Data Science: Theory and Practice.*

Fellow of the American Statistical Association, 2017.

Citation: *For outstanding methodological contributions in the areas of robustness, variable selection, and quantile regression; for exemplary leadership and mentoring of students and colleagues; and for service to the ASA and the profession.*

NCSU Diversity Doctoral Mentoring Fellow, 2016-2017.

NCSU Statistics D.D. Mason Faculty Award, 2014.

Citation: *This award is made in recognition of Professor Bondell's outstanding teaching and publication record, his direction of numerous PhD student theses, and his service as Director of the Graduate Program and on many departmental committees.*

'Highlights of JCGS' Invited Session at JSM 2013.

'Best of Technometrics' invited paper session at JSM 2009.

*Editorial &
Review
Service*

Associate Editor:

Australian and New Zealand Journal of Statistics, 2019-present.

Journal of the Royal Statistical Society: Series B, 2017-present.

Journal of the American Statistical Association: Theory and Methods, 2008-present.

Biostatistics, 2010-2017.

Biometrics, 2008-2014.

Consulting Editor:

Journal of Emergency Nursing, 2003-2008.

Reviewer for manuscripts in over 30 journals (statistical, as well as other fields).

Grant Review Panels:

Australian Research Council

US National Science Foundation

US National Institutes of Health

National Science Foundation of Hong Kong

Program Review:

Chair, External Review of Graduate Program in Statistics, University of Utah, 2015-2016.

*Other
Professional
Service*

University of Melbourne

Steering Committee, Centre for AI and Digital Ethics, 2020-present.

Deputy Head of School, 2019-2020.

Coordinator, Master of Data Science, 2018-2021.

Steering Committee, Data, Systems and Society Research Network (DSSRN), 2018-2019.

External

Advisory Board, Mathematical Research Institute (MATRIX), 2021-present.

Joint Venture Partner Committee, Australian Mathematical Society, 2021-present.

North Carolina State University

Director of Graduate Programs, 2013-2017.

Graduate Admissions Committee 2012-2017.

Course and Curriculum Committee, 2006-2017.

American Statistical Association

Treasurer, Section on Nonparametric Statistics, 2021-2022.

Leo Breiman Award Committee, Section on Statistical Learning and Data Mining, 2017-2018.

Chair, Student Paper Award Committee, Section on Nonparametric Statistics, 2016-2019.

Program Chair, Section on Statistical Learning and Data Mining, 2015-2016.

Chair for Continuing Education, Section on Statistical Learning and Data Mining, 2012-2015

Student Paper Award Committee, Section on Statistical Learning and Data Mining, 2012, 2013.

Local Assistance Committee, JSM, 2002.

Statistical and Applied Mathematical Sciences Institute (SAMSI)

NC State University Directorate Liaison, 2010-2014.

Conference Organisation

Chair, Organising Committee, Institute of Mathematical Statistics Asia-Pacific Meeting, 2024.

Organising Committee, IMS Conference on Data Science, 2023.

Organising Committee, IMS Conference on Data Science, 2022.

Senior Program Committee, AISTATS, 2011.

PhD

Students

Supervised

As Primary

Supervisor

North Carolina State University

Arun Krishna --- May 2009 (Biostatistician, Novartis)

Dhruv Sharma --- May 2010 (Senior Statistician, Michigan State University - Statistics)

Funda Gunes --- May 2010 (Assistant Professor, Duke University – Biostatistics)

Meg Koehler-Neely --- August 2011 (Associate Professor, Duke University - Biostatistics)

Liewen Jiang --- May 2012 (Biostatistician, Novartis)

Justin Post --- May 2012 (Associate Professor, NC State University - Statistics)

Chen-Yen Lin --- August 2012 (Biostatistician, Eli Lilly)

Dehan Kong --- August 2013 (Assistant Professor, University of Toronto - Statistics)

Na Zhang --- August 2014 (Biostatistician, Bristol-Myers-Squibb)

Kehui Wang --- May 2015 (Biostatistician, PPD Clinical Research Organization)

Tian Chen --- May 2015 (Biostatistician, Bristol-Myers-Squibb)

Zhongkai Liu --- May 2016 (Research Data Scientist, Microsoft)

Yan Zhang --- August 2016 (Assistant Professor, Hong Kong University – Statistics)

Yingzi Xu --- August 2016 (Research Data Scientist, Apple)

Lixia Zhang --- December 2016 (Research Data Scientist, Berg Health)

Yiqing Tian --- December 2017 (Biostatistician, Q-Squared Solutions)

Brian Naughton --- December 2017 (Research Data Scientist, Google)

Lin Su --- May 2018 (Research Data Scientist, Facebook)

Yaqing Zhao --- May 2018 (Quantitative Associate, Wells Fargo)

Rui Li --- May 2019 (Research Data Scientist, Facebook)

Anthony Franklin --- August 2019 (Research Data Scientist, Microsoft)

Jiajun Yin --- August 2020 (Research Data Scientist, Amazon)

Yue Yang --- August 2020 (Biostatistician, Eli Lilly)

University of Melbourne

Jiangrong Ouyang --- Thesis under review

Dong Luo --- In progress

Alejandro Casar Berazaluze --- In progress

William Rudd --- In progress

Evelyn Mannix --- In progress

David Ceddia --- In progress

Served on over 100 PhD and MSc committees.

<i>Current External Funding</i>	<p>ARC Discovery Project, 2024-2027 Role: Chief Investigator (<i>Chief Investigators</i>: Mingming Gong, Howard Bondell, Rajkumar Buyya, Total Amount: \$506,145 AUD)</p> <p>ARC Industrial Transformation Training Centre, 2021-2027 Role: Chief Investigator (<i>16 Chief Investigators</i>, Total Amount: \$4,860,000 AUD)</p> <p>ARC Future Fellowship, 2020-2024 Role: Chief Investigator (<i>Chief Investigator</i>: Howard Bondell, Total Amount: \$1,295,000 AUD)</p>
<i>Previous External Funding</i>	<p>US Army Research Office, 2018-2022 Role: Chief Investigator (<i>Chief Investigators</i>: Antoinette Tordesillas, James Bailey, Howard Bondell, Ben Rubenstein, Total Amount: \$522,000 AUD)</p> <p>US National Institutes of Health – P01 CA142538, 2010-2018 Role: Co-investigator (<i>Chief Investigators</i>: Michael Kosorok, Marie Davidian, Stephen George, Total Amount: \$7,526,516 USD)</p> <p>US National Science Foundation - DMS 1308400, 2013-2017 Role: Chief Investigator (<i>Chief Investigator</i>: Howard Bondell, Total Amount: \$150,000 USD)</p> <p>US National Science Foundation - DMS 1005612, 2010-2014 Role: Chief Investigator (<i>Chief Investigator</i>: Howard Bondell, Total Amount: \$130,000 USD)</p> <p>US National Institutes of Health - R01 MH84022, 2009-2013 Role: Chief Investigator (<i>Chief Investigators</i>: Jung-Ying Tzeng, Howard Bondell, Daowen Zhang, Total Amount: \$1,111,615 USD)</p> <p>US National Science Foundation - DMS 0705968, 2007-2011 Role: Chief Investigator (<i>Chief Investigator</i>: Howard Bondell, Total Amount: \$139,999 USD)</p> <p>NCSU Faculty Research and Professional Development Grant, 2006-2007 Role: Chief Investigator (<i>Chief Investigator</i>: Howard Bondell, Total Amount: \$4,000)</p>
<i>Publications</i>	<p>Link to Google Scholar - https://scholar.google.com/citations?user=rkIgsQQAAAAJ</p>