

Dr Patricia Menéndez

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Education

- 🎓 2009 PhD ETH Zurich, Switzerland.
🎓 2002 BSc + MSc Mathematics and Statistics, University of Valladolid, Spain.

Education on teaching, learning and leadership

- 🎓 2019 Homeward Bound Program Leadership training for women in STEMM
🎓 2013 Certificate in Higher Education University of Queensland, Australia Design Learning for Higher Education
🎓 2013 Certificate in Higher Education University of Queensland, Australia Design Teaching and Assessment

Experience

- 2019 - Lecturer Department of Econometrics and Business Statistics, Monash University, Melbourne Australia.
2016 - Statistician Australian Institute of Marine Science(AIMS), Townsville, QLD Australia.
2016 - 2019 Adjunct Lecturer School of Mathematics and Physics, University of Queensland, Brisbane, QLD Australia.
2014 - 2016 Research Statistician NSW Bureau of Crime Statistics and Research, Sydney, NSW Australia.
2013 - 2014 Lecturer in Statistics School of Mathematics and Physics, University of Queensland, Brisbane, QLD Australia.
2012 - 2013 Research fellow School of Mathematics and Statistics, UNSW, Sydney, NSW Australia.
2011 - 2012 Visiting profesor Department of Statistics, The Public University of Navarre, Pamplona, Spain.
2009 - 2011 Postdoctoral fellow Biometris, Wageningen University, Wageningen, The Netherlands.
2003 - 2005 Research fellow Department of Environment and Mathematical Sciences, University of Okayama, Okayama, Japan.









Service

- 2018 - Member of the Scientific Advisory Committee of the Australian Research Council Centre of Excellence for Mathematical and Statistical Frontiers (ACEMS), Australia.
- 2015 Mentor at The Women's College, University of Sydney, Sydney NSW, Australia.

Policy and Decision making

Extensive experience in the use of data visualisation and statistical methods for policy and decision making in the areas of crime research and environmental sciences.

Grants

- ✈ 2018 - 2019 **568,517 AUD** ▶ Reef 2050 Long Term Sustainability Plan, Title: The Giant Triton and its Potential for Mitigating Crown-of-Thorns Starfish Outbreaks: Development of Aquaculture Methodologies to Produce Giant Tritons for Potential Re-stocking.  Funded by Department of the Environment and Energy. ▶ *Cherie Motti, Patricia Menéndez, Michelle Heupel, Scott Cummins.*
- ✈ 2017 **19,970 AUD** ▶ Statistics and Modelling group.  Funded by The Australian Institute of Marine Science, Townsville, Australia. ▶ *Patricia Menéndez*
- ✈ 2016 **1,700 AUD** ▶ Personal development.  Funded by The Australian Institute of Marine Science, Townsville, Australia. ▶ *Patricia Menéndez*
- ✈ 2013 **8,670 AUD** ▶ Skills training for casual exam markers.  Funded by Faculty of Science, University of Queensland, Brisbane, Australia. *Melanie Robertson-Dean, Anthony Roberts, Michael Bulmer, Michael Jennings, Victor Scharaschkin, Poh Hillock and Patricia Menéndez*
- ✈ 2013 **3,053 AUD** Evaluating student engagement and learning in statistics lectures.  Funded by Faculty of Science, University of Queensland, Brisbane, Australia. *Michael Bulmer, Jia Chen, Patricia Menéndez*
- ✈ 2013 **12,000 AUD** ▶ Start up grant.  Funded by the School of Mathematics and Physics, University of Queensland, Brisbane, Australia. ▶ *Patricia Menéndez*
- ✈ 2011 **5,000 AUD** ▶ International Exchange Fund for Collaboration.  Funded by Kawaga University, Japan. ▶ *Yoshii Hidefume and Patricia Menéndez*
- ✈ 2003-2005 **60,000 AUD** ▶ Monbukagakusho Research grant (**60,000 AUD**).  Funded by the Japanese Ministry of Education, Culture, Sports, Science and Technology. ▶ *Patricia Menéndez.*

Selected publications

- ▶ WY Chan, LM Peplow, P Menéndez, AA Hoffmann, and MJH van Oppen. Interspecific hybridization may provide novel opportunities for coral reef restoration. *Frontiers in Marine Science*, 5:160, 2018.
- ▶ P Menéndez, K Kypri, and D Weatherburn. The effect of liquor licensing restrictions on assault: a quasi-experimental study in Sydney, Australia. *Addiction*, 112(2):261–268, 2017.
- ▶ MJ Barcena, P Menéndez, MB Palacios, and Fernando Tusell. Alleviating the effect of collinearity in geographically weighted regression. *Journal of Geographical Systems*, 16(4):441–466, 2014.
- ▶ P Menéndez, S Ghosh, HR. Kuensch, and W Tinner. On trend estimation under monotone Gaussian subordination with long-memory: Application to fossil pollen series. *Journal of Nonparametric Statistics*, 25(4):765–785, 2013.
- ▶ T Zumbrunnen, GB Pezzatti, P Menéndez, H Bugmann, M Bürgi, and M Conedera. Forest Ecology and Management Weather and human impacts on forest fires : 100 years of fire history

in two climatic regions of Switzerland. *Forest Ecology and Management*, 261(12):2188–2199, 2011.

- P Menéndez, YA I Kourmpetis, CJ F ter Braak, and FA. van Eeuwijk. Gene regulatory networks from multifactorial perturbations using graphical lasso: Application to the DREAM4 challenge. *PLoS ONE*, 5(12), 2010.

Selected invited presentations

- Statistical Methods to Study the Effect of the 2014 Lockout Laws in Sydney. Organized by the NSW branch of the Statistical Society of Australia. 📍 Sydney, NSW, Australia, 2015.
- Career Paths. Girls Do The Math Workshop, School of Mathematics and Statistics, UNSW, 📍 Sydney, NSW, Australia, 2013.
- Gaussian Markov Random Fields and Network Reconstruction. The 37th In Silico Megabank Research Seminar Tohoku University, 📍 Sendai, Japan, 2013.
- Analysis of irregularly spaced palaeo time series. Department of Econometrics and Statistics, University of the Basque Country, 📍 Bilbao, Spain, 2011.
- Penalized Regression. 26th Annual Symposium on Chemometrics, 📍 Utrecht, The Netherlands, 2010.
- Undirected Graphical models: An application to metabolic networks. Theoretical Biology & Bioinformatics Group, University of Utrecht, 📍 Utrecht, The Netherlands, 2010.
- Trend estimation for unequal time points. IMAGE seminar, National Center for Atmospheric Research, 📍 Boulder, USA, 2007.

Membership in Profesional Associations

- Statistical Society of Australia
- The International Environmetrics Society
- The International Statistical Institute