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| **Curriculum Vitae** |
| **Marcela I Cespedes** |  |
| CSIRO Health& Biosecurity, | Phone (617) 3253 3633 |
| Australian e-Health Research Centre,  | Email: Marcela.cespedes@csiro.au |
| Level 5 UQ Health Sciences Building 901/16 |   |
| Royal Brisbane and Women’s Hospital |  |
| Herston, Queensland 4029, Australia |  |
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| **Educational History and Qualifications** |
| 2014 - 2017 | Doctorate on Bayesian statistics |
| 2009-2013 | Bachelor of Mathematical Science with 1st class Honours in statistics, University of South Australia (UniSA) |
| 2002 - 2008 | Electronics Communications Technician at the Royal Australian Navy |
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| **Employment History** |
| 2017 - present | Postdoctoral Fellowship in Biostatistics |
| 2016 - 2017 | Research Assistant at University of Southern Queensland |
| Feb - June 2015  | SEB115 Experimental Science 1 Tutor |
| Dec 2011 - Feb 2012 | Research Assistant at the Phenomics and Bioinformatics Research Centre |
| Dec 2010 - 2011 | Research Assistant UniSA |
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| **Peer reviewed publications** |
| J. Cai & **M. Cespedes**. Plant temperature measurement and analysis from infrared images, In *Proceedings of the 27th Conference on Image and Vision Computing New Zealand*, IVCNZ 2012, pages 406 - 411, New York, USA, 2012. ISBN 987-1-4503-1473-2. |
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| **Cespedes, M.I.**, Fripp, J., McGree, J.M., Drovandi, C.C., Mengersen, K. and Doecke, J.D., 2017. Comparisons of neurodegeneration over time between healthy ageing and Alzheimer's disease cohorts via Bayesian inference. *BMJ open*, *7*(2), p.e012174. |
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| **Cespedes, M.I.,** J., McGree, Christopher C., Drovandi, Kerrie Mengersen, James D., Doecke, Jurgen Fripp, 2018. An efficient algorithm for estimating brain covariance networks, PLOS ONE, *in press*, DOI: [10.1371/journal.pone.0198583](https://doi.org/10.1371/journal.pone.0198583) |
| **Conference presentations** |
| Nov 2017, International Biometric Society Australasian Region Conference. | Award winning poster presentation titled *‘Spatio-temporal cortical brain patterns of Alzheimer’s disease’.* |
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| Dec 2016 Australian Statistical Conference. | Presented talk on *‘Fast and wombled approaches to detect spatial patterns of neurodegeneration consistent with progression towards Alzheimer’s disease’* |
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| Dec 2015 11th Bayes on the Beach, Surfers Paradise | Poster presentation titled *'Spatio-temporal cortical thickness model: patterns of neurodegeneration'.* |
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| Feb 2015 Young Statisticians Conference, Adelaide | Poster presentation titled *'Application of decision trees on neuroimaging data: Modelling multiple biomarkers to better understand Alzheimer's disease progression'.* |
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| Dec 2014 10th Bayes on the Beach, Surfers Paradise | Poster presentation titled *'Modelling dynamics of brain atrophy via Bayesian mixed effect regression in healthy aging and Alzheimer's disease cohorts'.* |
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| Dec 2013 20th International Congress on Modelling and Simulation (MODSIM), Adelaide | Presented talk on *'Generalised linear model and analysis of cereal plant biomass'* |
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| **Awards and scholarships** |
| Jan 2014 - 2017 | CSIRO PhD scholarship |
| Jan 2014 - 2017 | Australia Postgraduate Award |
| Dec 2012 - March 2013 | GRDC Undergraduate Honours Scholarships |
| Jan 2012 | School of Mathematics and Statistics Prize |
| Dec 2011 - Feb 2011 | ACPFG UniSA Mathematics and Statistics Vacation Scholarship |
| Dec 2011 | University of South Australia Chancellor's Commendation |
| Dec 2010 - Feb 2011  | School of Mathematics and Statistics Vacation Scholarship |
| Dec 2010  | University of South Australia Chancellor's Commendation |
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| Referees available upon request |