

Nicholas Tierney

PhD Candidate in Statistics at QUT

nicholas.tierney@gmail.com |  njtierney |  nj_tierney

Education	2013–	Queensland University of Technology PhD Statistics. Supervisors: Kerrie Mengersen, Fiona Harden, Maurice Harden
	2008–12	University of Queensland B. PsychSc (Honours). Supervisor: Philip Grove
	2010	McGill University Exchange semester
Papers	2015	"Using Decision Trees to Understand Structure in Missing Data." Tierney, N.J. , Mengersen, K., Harden, F., Harden M. <i>BMJ Open</i> 5 (6). doi:10.1136/bmjopen-2014-007450
	2016	"S3 Methods: A Simple Guide." Tierney, N.J. <i>The R Journal</i> . In Preparation
	2016	"Bayesian Approaches to Modelling Occupational Health." Tierney, N.J. Mengersen, K., Harden, F., Harden, M. <i>Occupational and Environmental Medicine</i> . In Preparation
	2016	"Optimising placement of AEDs in cases of geographic variability", Tierney, N.J. , Mira, A., Jost, Mengersen, K.L., Aurichio, A., <i>Cardiology</i> . In Preparation
Invited Talks	2016	"Interactive Maps in R: Getting a lay of the land", Nicholas Tierney , Gates Cambridge group, Cambridge University, UK.
	2016	"Data Mining Mining Data: Statistical Approaches in Occupational Health for a Mining Site" Nicholas Tierney , Università della Svizzera italiana Lugano, Switzerland
Contributed Talks	2016	"Be a Hawk Not a Turkey: How A Bird's Eye View can Streamline Data Analysis", Tierney, N.J. , Mengersen, K., Pitchforth, J. Workshop Organised by Monash Business Analytics Team (WOMBAT). Melbourne Zoo, Melbourne, Australia.
	2014	Tierney, N.J. , et al. "Understanding Missing Data: The Use of Classification and Regression Trees, and Boosted Regression Trees", <i>ASC / IMS Meeting</i> . Sydney, Australia.
International Experience	2016	Invited academic at the Inter-Disciplinary Institute of Data Science at Università della Svizzera italiana, Lugano, Switzerland, June 18 - July 9.
	2016	Invited speaker for Gates-Cambridge Group, Cambridge University, England. July 20 - July 23rd.
Posters	2016	"Bayesian Approachs in Occupational Health Surveillance" Tierney, N.J. , Mengersen, K., Clifford, S., Drovandi, C., Harden, F., Harden, M. <i>World Meeting for the International Society for Bayesian Analysis</i>
	2015	"The Sharpest Tool in the Shed" Tierney, N.J. et al. <i>Bayes on the Beach</i>
	2014	"Missingness, Mixtures, and Multiple Imputation" Tierney, N.J. et al. <i>Bayes on the Beach</i>
	2015	"Integrating Occupational Hygiene, Medicine and Engineering in a Mining Context." Maurice Harden, Charles Steer, Fiona Harden, Geoff Butler, Kerrie Mengersen, Nicholas Tierney , <i>Ann. Occup. Hyg.</i> , Vol. 59, No. Supplement 1, 1–47 doi:10.1093/annhyg/meu119
Presentations	2016	"Reproducible Research: Now you can, too! Reproducible Research: Now you can, too!", BURGr Meetup, Brisbane, Australia
	2016	"And Now You Can, Too!" Building an R Package from Scratch in R, BRAG, Brisbane, Australia
	2015	STARS: "The Joy of Stats", QUT, Brisbane, Australia.
	2013–15	Industry Doctoral Training Centre (IDTC) Student Conferences, Various
	2015	Using RMarkdown for Research BRAG, Brisbane, Australia
	2015	Developing Bayesian Models for Ranking Academic Papers, Bayes on the Beach, Gold Coast, Australia
	2013	Australian Science Media Centre: "Statistics for Journalists", Brisbane, Australia
Awards	2013–17	APA (\$24,500 Annually for 4 years) ; IDTC Top Up (\$10,000 Annually for 4 years)
	2016	SSAI Fully sponsored position at "Science Meets Parliament", Canberra, Australia
	2015	Sessional Teaching and Reflection Showcase (STARS) Overall University Winner
	2015	Vice-Chancellor's Performance Award for innovation in teaching in SEB113 (\$2,500)
	2014	Honourary Life member of the University of Queensland Mountain Club (UQMC)
Teaching	2015	SEB113 Taught workshops and created lab materials using RMarkdown and video

Volunteering	2016	Organiser for the first rOpenSci Australian Unconference
	2013-	SSAI Assistant Chair of Biostatistics
	2013-2016	SSAI Young Statisticians Representative for Queensland
	2014	Meeting Chair for Bayesian Research and Applications Group (BRAG), QUT

Extra-Curricular	2014-	Master of Ceremonies of State and National Climbing Championships
	2015-16	Archivist and Magazine Editor of UQMC
	2014, 12	Executive Committee of UQMC
	2007-09	Volunteer at Edmund Rice Camps

Projects

Blog	2013-	I maintain a personal blog, njtierney.com , to share code and statistics, and to engage in dialogue with the statistics and r-programming communities
------	-------	--

R packages	2016-	copertura: Tools for solving the Maximal Covering Location Problem in R
	2016-	treezy: Tools for working with decision trees in R
	2016-	visdat: Visualise a whole dataframe at once
	2015-	ggmissing: Extend ggplot to account for missing data
	2014-	neato: Miscellaneous Utility functions in R

References	PhD	Professor Kerrie Mengersen k.mengersen@qut.edu.au
	PhD	Dr. Fiona Harden fiona.harden@qut.edu.au
	Honours	Dr. Phillip Grove p.grove@uq.edu.au
	Teaching	Dr. Sam Clifford samuel.clifford@qut.edu.au

Technical skills	R	LaTeX	Bayesian Statistics
	STATA	GitHub	Data visualisation
	JAGS	Machine Learning	Reproducible Reporting