

# Ellen Muir

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PERSONAL	Department of Economics Stanford University Stanford, CA 94305-6072 United States	evmuir@stanford.edu <a href="http://ellenmuir.net/">http://ellenmuir.net/</a>
EDUCATION	<b>Ph.D. in Economics</b> , Stanford University <b>Ph.D. in Mathematics &amp; Statistics</b> , University of Melbourne Specialisation in stochastic analysis and modelling and microeconomic theory Advisors: Prof. Simon Loertscher, Prof. Peter Taylor <b>M.Sc. in Mathematics &amp; Statistics</b> , University of Melbourne Specialisation in applied mathematics <b>B.Sc. in Mathematics &amp; Statistics</b> , University of Melbourne Double major in pure mathematics and applied mathematics, minor in economics	2022 (expected) 2017 2013 2011
APPOINTMENTS	<b>Research Fellow</b> , School of Mathematics & Statistics, University of Melbourne Six month appointment as a research fellow in stochastic modelling	2017
RELEVANT POSITIONS	<b>Research Assistant</b> , Graduate School of Business, Stanford University Asst. Prof. Mohammad Akbarpour <b>Research Assistant</b> , Department of Economics, Stanford University Prof. Paul Milgrom <b>Research Assistant</b> , Department of Economics, University of Melbourne Prof. Simon Loertscher and the Center for Market Design <b>Visiting Scholar</b> , Department of Economics, Columbia University Sponsored by Prof. Michael Riordan	2018 2017 2012 – 2016 2015
RESEARCH INTERESTS	Microeconomic theory, mechanism design, market design, auction theory, matching, probability theory, stochastic processes, Markov processes, dynamic programming	
REFEREED PUBLICATIONS	“A general noncentral hypergeometric distribution” with Simon Loertscher & Peter Taylor. <i>Communications in Statistics – Theory &amp; Methods</i> , 46(9), 2017: 4579–4598 “Approximating the equilibrium quantity traded and welfare in large markets” with Konstantin Borovkov. <i>Stochastic Models</i> , 33(3), 2017: 411–429	
WORKING PAPERS	“Optimal market thickness and clearing” with Simon Loertscher and Peter Taylor, last updated January 2018 “The distribution of the equilibrium quantity traded” with Simon Loertscher and Peter Taylor, last updated May 2017 “Dynamic market making” with Simon Loertscher and Peter Taylor, last updated February 2017	

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SCHOLARSHIPS & AWARDS	Graduate Fellowship, Stanford University	2017 – 2022
	Visiting Research Scholar Award, University of Melbourne	2018
	Laureate Fellowship Postgraduate Researcher Award, University of Melbourne	2014 – 2017
	Elizabeth & Vernon Puzey Scholarship, University of Melbourne	2014 – 2017
	New Zealand Institute of Economic Research Travel Grant	2017
	<i>Journal of Industrial Economics</i> Graduate Student Travel Fellowship	2016
	Student Prize, Australia New Zealand Applied Probability Workshop	2015
	Professor Wilson Prize in Mathematics, University of Melbourne	2013
	Mathematics & Statistics Masters Scholarship, University of Melbourne	2012 – 2013
	Melbourne National Scholarship, University of Melbourne	2009 – 2011
	Dean's Honours List, University of Melbourne	2009 – 2011
	Dux of Janet Clarke Hall, University of Melbourne	2010 – 2011
	Lady Janet Clarke Scholarship, University of Melbourne	2010 – 2011
	Dean's Prize in Faculty of Science, University of Melbourne	2009
Australian Student Prize	2009	
TEACHING	<b>Department of Economics</b> , University of Melbourne	
	Teaching Assistant & Guest Lecturer: ECON90002 Microeconomics	2017
	Teaching Assistant: ECON40001 Advanced Microeconomics	2015
	Teaching Assistant: ECON30010 Microeconomics	2012 – 2014
	Teaching Assistant: ECON20002 Intermediate Microeconomics	2014
	Teaching Assistant: ECON20001 Intermediate Macroeconomics	2014
	Teaching Assistant: ECON10004 Introductory Microeconomics	2011 – 2013
	Teaching Assistant: ECON10003 Introductory Macroeconomics	2011 – 2013
	<b>Janet Clarke Hall</b> , University of Melbourne	
Non-residential Tutor: Undergraduate economics	2011 – 2013	
REFEREING	<i>Communications in Statistics – Theory and Methods</i>	
INVITED TALKS	CME Group-MSRI Prize in Innovative Quantitative Applications Panel (scheduled), University of Melbourne (scheduled)	2018
	University of North Carolina at Chapel Hill	2017
	Columbia/Duke/MIT/Northwestern IO Theory Conference, École Polytechnique Fédérale de Lausanne, University of Queensland, Melbourne IO & Theory Day	2016
CONFERENCE PRESENTATIONS	Australasian Economic Theory Workshop (Auckland), Applied Probability @ the Rock, Stochastic Processes and their Applications (Moscow)	2017
	European Meeting of the Econometric Society (Geneva), Australasian Meeting of the Econometric Society (Sydney)	2016
	Australian & New Zealand Applied Probability Workshop, Australia & New Zealand Industrial & Applied Mathematics Conference (ANZIAM)	2015