

# Matthew C. Galloway

gall0441@umn.edu  
<https://mgallow.github.io/>

Education	<b>University of Minnesota</b> , Minneapolis, Minnesota	
	<b>School of Statistics</b> , Doctorate of Philosophy (Ph.D.)	
	<ul style="list-style-type: none"><li>Research interests include: statistical machine learning, multivariate analysis, precision matrix estimation, sufficient dimension reduction, and kernel methods.</li></ul>	
	<b>University of St. Thomas</b> (Liberal Arts), St. Paul, Minnesota	Graduation: May 2015
	<b>Majors: B.S. Statistics, B.S. Actuarial Science</b> , Renaissance Minor	
	<b>B.A. Mathematics</b> (concentration in Applied Mathematics)	
	<b>Actuarial Exams Passed:</b> P/1; FM/2; MFE/3 (fulfilled all VEE requirements)	
Research	<b>Omega - A complete R package for precision matrix estimation</b>	
	<ul style="list-style-type: none"><li>Estimates a penalized precision matrix via various methods such as ADMM and the glasso algorithm. Written in C++. Available on Github: MGallow/Omega.</li></ul>	
	<b>Envelope Methods</b>	
	<ul style="list-style-type: none"><li>Envelopes are nascent methodology aimed at increasing efficiency in the multivariate estimation and prediction setting. Potential for huge efficiency gains in applications like computer vision, tensor regression.</li></ul>	
	<b>Default Analysis of Mortgage Portfolios</b>	
	<ul style="list-style-type: none"><li>Used MCMC to model time-to-default of subprime mortgages in 2002-2010. Presented at MCMSki Conference, Chamonix, France, January 2014. <i>Paper accepted in MASA.</i></li></ul>	
Work Experience	<b>Research Assistant</b>	June 2018 - Present
	University of Minnesota - School of Statistics	
	<ul style="list-style-type: none"><li>My current research is broadly related to efficient precision matrix estimation under the supervision of Adam J. Rothman, Ph.D.</li></ul>	
	<b>Statistical Consultant</b>	June 2017 - Present
	Institute for Research on Statistics and its Applications (IRSA)	
	<ul style="list-style-type: none"><li>Advise clients, including professors and faculty at the university, on the proper statistical analysis related to their research.</li></ul>	
	<b>Teaching Assistant</b>	Sept. 2015 - Present
	University of Minnesota - School of Statistics	
	<ul style="list-style-type: none"><li>STAT 1001, STAT 3021, STAT 3032, STAT 4893W, STAT 8052</li></ul>	
	<b>Tutor</b>	June 2017 - Present
	University of Minnesota - Twin Cities	
	<ul style="list-style-type: none"><li>STAT 3022, MBA 6120</li></ul>	
Awards	<b>Lynn Lin Fellowship</b>	May 2017
	<b>Allianz Life Endowment Scholarship</b>	April 2014
	<b>Young Investigator Travel Grant</b>	Jan. 2014
	<b>International Education Scholarship</b>	Jan. 2014