

**Ryan Miller,
Visiting Assistant Professor of Statistics**

Grinnell College

CONTACT INFORMATION	Noyce 2217, Grinnell College, 1116 8 th Avenue, Grinnell, IA 50112-1690	phone: (815) 307-2803 email: millerry@grinnell.edu website: remiller1450.github.io
EDUCATION	University of Iowa , Iowa City, IA Ph.D., Biostatistics , August 2018 <ul style="list-style-type: none">• Thesis: <i>Marginal False Discovery Rate Approaches to Inference on Penalized Likelihood Models</i>• Advisor: Patrick Breheny, Ph.D M.S., Biostatistics , May 2015 <ul style="list-style-type: none">• Preceptorship Topic: <i>Analyzing the Geographic Dispersion of Accidents Involving Animal Strikes in Iowa using a Bayesian Spatio-temporal Model</i>• Advisor: Jake Oleson, Ph.D Augustana College , Rock Island, IL B.A., Mathematics and Mathematics Education (Double Major) , May 2011 <ul style="list-style-type: none">• Graduated <i>Cum Laude</i>• Advisor: Stacey Rodman, Ph.D	
TEACHING EXPERIENCE	Grinnell College, Department of Mathematics and Statistics STA 209 - Applied Statistics Spring 2019 STA 230 - Introduction to Data Science (two sections) Spring 2019 STA 209 - Applied Statistics (two sections) Fall 2018 University of Iowa, Department of Biostatistics BIOS 4120 - Introduction to Biostatistics (Instructor) Summer 2014 BIOS 4120 - Introduction to Biostatistics (Teaching Assistant) Spring 2014 BIOS 4120 - Introduction to Biostatistics (Teaching Assistant) Fall 2013 Pawnee High School, Pawnee IL Calculus I, Algebra II w/ Trig, Algebra I, Advanced Algebra 2011-2012	
RESEARCH INTERESTS	High-dimesional data analysis, penalized likelihood models, false discovery rates and multiple comparisons, causal inference, statistics in sports, data science eduction	
RESEARCH POSITIONS	Research Assistant January 2017 to August 2018 Iowa Public Policy Center , University of Iowa Supervisor: Elizabeth Momany , Ph.D Role: Statistical analysis as part of the State Innovation Model (SIM) for Iowa healthcare Research Assistant August 2014 to January 2017 Iowa Public Policy Center , University of Iowa Supervisor: Michelle Reyes , M.S. Role: Statistical analyses and data management on projects involving the Iowa Department of Transportation (IDOT) crash record database	

CONSULTING EXPERIENCE	<p>Consultant</p> <p>National Advanced Driving Simulator Organization, University of Iowa Supervisor: Michelle Reyes, M.S. Role: Statistical support on projects involving teen driving research</p> <p>June 2017 to August 2018</p>
PEER-REVIEWED PUBLICATIONS	<p>1. Miller, R. and Breheny, P “Marginal false discovery rate control for likelihoodbased penalized regression models”. <i>Biometrical Journal</i>. 2019; 1 13. https://onlinelibrary.wiley.com/doi/abs/10.1002/bimj.201800138</p>
MANUSCRIPTS IN PROGRESS	<p>1. Miller, R. and Breheny, P “Feature-specific inference for penalized regression using local false discovery rates” (In submission) Pre-print: https://arxiv.org/pdf/1809.05497.pdf</p> <p>2. Askelson, N, Momany, E, Miller, R., Wright, B, Jones, M, Bentler, S, Damiano, P “A preliminary examination of Medicaid disenrollment: How a Medicaid Reform Designed to Increase Personal Responsibility Disrupted Coverage” (In submission)</p> <p>3. Miller, R. and Breheny, P “Marginal false discovery rates for group lasso selections” (In preparation)</p>
MENTORING	<p>Undergraduate research (Grinnell College):</p> <ul style="list-style-type: none"> • Jindal, T, and Luo, Y “Evaluating Induced Exposure and Rate-based Risk Models with Application to Iowa DOT Crash Records” (Summer 2019) • Lee, S, and Tibrewal, I “Statistical Analysis of the Impact of Impairment and Substance Use on Driving Performance” (Summer 2019) <p>Doctoral committee member (University of Iowa):</p> <ul style="list-style-type: none"> • Peterson, R “Ranked Sparsity: A Regularization Framework for Selecting Features in the Presence of Prior Informational Asymmetry” (Spring 2019)
HONORS AND RECOGNITIONS	<ul style="list-style-type: none"> • William R. Clarke Graduate Teaching award recipient 2018 • University of Iowa Outstanding Teaching Assistant nominee 2013-14 • Pi Mu Epsilon honor society, Augustana College chapter 2010 • Four-year letterman in Cross Country, Track at Augustana College 2007-2011
REFERENCES	<p>Patrick Breheny Associate Professor Department of Biostatistics University of Iowa Phone: (319) 384-1584 E-mail: patrick-breheny@uiowa.edu http://myweb.uiowa.edu/pbreheny/</p> <p>Jeff Jonkman Associate Professor, Statistics Chair Department of Math and Statistics Grinnell College Phone: (641) 269-3930 E-mail: jonkmanj@grinnell.edu</p> <p>Joe Cavanaugh Department Executive Officer, Professor Department of Biostatistics University of Iowa Phone: (319) 384-1602 E-mail: joe-cavanaugh@uiowa.edu http://myweb.uiowa.edu/cavaaugh/</p> <p>Michelle Reyes Research Associate National Advanced Driving Simulator University of Iowa Phone: (319) 335-9563 E-mail: michelle-reyes@uiowa.edu</p>