Andrew Sage

1006 Lincoln Way, Apt. 314

Ames IA, 50010

Phone: 440-488-7299 Email:ajsage@iastate.edu

EDUCATION

Iowa State University, Ames, Iowa

Degree: Ph.D. student 2018

Dissertation Topic: Random forest robustness and variable importance

Advisors: Ulrike Genschel, Dan Nettleton

Iowa State University, Ames, Iowa

Degree: Master of Science in Statistics. 2015

Master's Project: Predicting Student Retention in STEM:

A Random Forest Based Approach

Advisor: Dan Nettleton

Miami University, Oxford, Ohio

Degree: Master of Science in Mathematics. 2013

Master's Project: Calculation of Cell Bounds for

Contingency Tables from Rounded Conditional Frequencies

Advisor: Stephen Wright

The College of Wooster, Wooster, Ohio

Degree: Bachelor of Arts, 2007

Major: Mathematics

TEACHING EXPERIENCE

Iowa State University, Ames, Iowa

Graduate teaching assistant, Department of Statistics Courses taught:

 probability and statistics for computer science Fall 2016 introductory statistics Fall 2014 survey sampling techniques (lab instructor) Spring 2014

Miami University, Oxford, Ohio

Graduate teaching assistant, Department of Mathematics Courses taught:

precalculus (taught 3 times)

2011-2012 calculus I Spring 2013

Bloomfield High School, North Bloomfield, Ohio High school mathematics teacher	2007-2011
Ashtabula County Joint Vocational School , Jefferson, Ohio High school mathematics teacher	2007-2008
RESEARCH EXPERIENCE	
Iowa State University, Ames, Iowa	
Research assistant, Department of Statistics	2015-present
Advisor: Ulrike Genschel	
 Developed a predictive model to identify undergraduate students at risk of dropping out of STEM majors 	
Iowa State University, Ames, Iowa	
Research assistant, Center for Survey Statistics and Methodology Advisor: Cindy Yu	2013
 Investigated temporal design for National Resource Inventory rangeland longitudinal study 	
College of Wooster, Wooster, Ohio	2006
Applied Mathematics Research Experience	
Advisor: John Ramsay	
 Wrote Excel-based program to project completion times for tire tests at The Goodyear Tire and Rubber Company 	
AWARDS/RECOGNITION	

•	Effective Graduate Teaching Award, Dept. of Mathematics, Miami Univ.	2013
•	SIAM Graduate Student Award, Dept. of Mathematics, Miami Univ.	2013
-	Summa Cum Laude, College of Wooster	2007
-	William H. Wilson Prize in mathematics, College of Wooster	2007
•	Phi Beta Kappa Induction	2006

PUBLICATIONS

Sage, A. J., & Wright, S. E. (2016). Obtaining cell counts for contingency tables from rounded conditional frequencies. *European Journal of Operational Research*, 250(1), 91-100.

PRESENTATIONS

"Predicting Student Retention in STEM Majors"

Joint Statistical Meetings, Seattle WA, contributed talk, August 10, 2015

"Predicting Student Retention in STEM: A Random Forest Based Approach"

Masters project defense, Iowa State University, March 27, 2015

"Adaptive Survey Design"

Survey Working Group, Iowa State University, March 14, 2014

"The Factoring Likelihood Approach for Maximum Likelihood Estimation in Cases of Missing Data"

Survey Working Group, Iowa State University, November 20, 2013

"The Effect of Rounding on Disclosure in Contingency Tables"

ASA Iowa Chapter Conference, Ames IA, poster presentation, November 1, 2013

"Calculation of Cell Bounds for Contingency Tables with Rounded Conditional Frequencies"

Masters project defense, Miami University, June 28, 2013

"What are the Chances? A Study of Probability Functions and Their Theory" Independent Study defense, College of Wooster, April 2007

"Goodyear Tire Test Center Project"

AMRE Projects Day, College of Wooster, November 2006

"Goodyear Tire Test Scheduling Project"

Summer Research Poster Session, College of Wooster, October 2006

PROFESSIONAL ASSOCIATIONS

American Statistical Association