Andrew Sage

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LinkedIn: www.linkedin.com/in/andrewjsage

EDUCATION

Iowa State University, Ames, Iowa

Degree: Ph.D. in Statistics Expected 2018

Dissertation Topic: Random forest robustness and variable importance

Advisors: Ulrike Genschel, Dan Nettleton

Iowa State University, Ames, Iowa

Degree: M.S. in Statistics, 2015

Master's Project: Predicting Student Retention in STEM:

A Random Forest Based Approach

Advisor: Dan Nettleton

Miami University, Oxford, Ohio

Degree: M.S. 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: B.A. in Mathematics 2007

Summa Cum Laude

TEACHING/MENTORING EXPERIENCE

Iowa State University, Ames, Iowa

Graduate teaching assistant, Department of Statistics Courses taught as instructor:

•	Stat 231: probability and statistics for engineering	S2017, F2017
•	Stat 330: probability and statistics for computer science	F2016
•	Stat 104: introductory statistics	F2014

Other teaching/mentoring at Iowa State University

•	Graduate mentor for Freshman Honors Project by	S2017
	Cameron Stocker with faculty advisor Dan Nettleton	

Lab instructor for survey sampling techniques
 S2014

Miami University, Oxford, Ohio Graduate teaching assistant, Department of Mathematics Courses taught as instructor:	00040	
Math 151: calculus IMath 123: precalculus (taught 3 times)	S2013 2011-2012	
Bloomfield High School, North Bloomfield, Ohio High school mathematics teacher	2007-2011	
Ashtabula County Joint Vocational School, Jefferson, Ohio High school mathematics summer school teacher	2007-2008	
RESEARCH EXPERIENCE		
 lowa State University, Ames, Iowa Research assistant, Department of Statistics Advisor: Ulrike Genschel Developed a predictive model to identify undergraduate students at risk of dropping out of STEM majors 	2015-present	
 lowa State University, Ames, Iowa Research assistant, Center for Survey Statistics and Methodology Advisor: Cindy Yu Investigated temporal design for National Resource Inventory rangeland longitudinal study 	2013	
 College of Wooster, Wooster, Ohio Undergraduate 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 	2006	
AWARDS/RECOGNITION		
 Jebe Fellowship, Iowa State University Effective Graduate Teaching Award, Dept. of Mathematics, Miami SIAM Graduate Student Award, Dept. of Mathematics, Miami Univ William H. Wilson Prize in Mathematics, College of Wooster William Edgar Hoffman Jr. Prize in Education, College of Wooster Whitney E. Stoneburner Prize in Education, College of Wooster Phi Beta Kappa 	v. 2013 2007	

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

"Random Forest Variable Importance"

Research Talk for Dordt College Statistical Genetics and Biostatistics Summer Research group visit to Iowa State University, Ames IA, June 29, 2017

"Impact of Working with Real Data on Perceptions of the Importance of Statistical Inference"

Reviewed Poster, United States Conference on Teaching Statistics, State College PA, May 19,2017

"Retention of Students in STEM: An Early Alert Project"

Iowa State Advising Summit, April 28, 2017

"A Walk Through a Random Forest"

Invited Talk, Dordt College, Sioux Center, IA, March 23, 2017

"A Walk Through a Random Forest"

Invited Talk, College of Wooster, Wooster OH, December 2, 2016

"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

PROFESSIONAL ACTIVITIES/ASSOCIATIONS

- American Statistical Association
- Preparing Future Faculty Associate, Iowa State University
- Project LEA/RN (Learning Enhancement Action / Resource Network) Working Group, Iowa State University