CONTACT INFORMATION _

2207 Snedecor Hall Email: kgoode@iastate.edu Department of Statistics Phone: 920-904-7072

2438 Osborn Dr, Ames, IA 50011 Website: https://goodekat.github.io/

EDUCATION _

2016 - Current Doctor of Philosophy, Statistics

Iowa State University, Ames, IA Major Professor: Dr. Heike Hofmann

Research Topic: Diagnostics for Random Forest Models

Expected Completion: December 2020

2013 - 2015 Master of Science, Statistics

University of Wisconsin, Madison, WI

2009 - 2013 Bachelor of Arts, Mathematics

Lawrence University, Appleton, WI Graduated Magna Cum Laude

Senior Capstone: "An Explanation of Double-Error-Correcting BCH Codes"

Study Abroad

- 2012 University of Granada, Centro de Lenguas Modernas
- 2010 Lawrence London Centre

Awards and Honors _____

2018 ISU Department of Statistics Dan Mowrey Consulting Excellence Award Awarded in recognition of outstanding contributions in the area of statistical consulting while working toward a graduate degree.

2017 ISU Department of Statistics Award for Experiential Development

Presented to a student for excellent performance in multiple statistical efforts as part of the graduate program.

- 2009 2013 Lawrence University Deans List
- 2009 2013 Lawrence University Richard Warch Presidential Scholarship
- 2012 2012 Mortar Board Honor Society
- 2010 2011 Lambda Sigma National Honor Society

Positions Held _____

2018 - Current Senior Statistical Consultant

Agriculture Experiment Station, Iowa State University

Mentored and trained new consultants. Helped the group adviser make administrative decisions. Oversaw organizational tasks for the consulting group. Continued with responsibilities from being a statistical consultant.

2016 - 2018 Statistical Consultant

Agriculture Experiment Station, Iowa State University

Provided statistical support on research projects for graduate students, faculty, and staff mostly from the college of agriculture and life sciences but also from the colleges of engineering, human sciences, liberal arts and sciences, and veterinary medicine. Advised clients on study designs, statistical analysis methods, and statistical language use in writing in many areas of statistics including exploratory analyses, linear (and mixed) models, generalized linear (and mixed) models, data visualization, community analyses, dose response curves, predictive modeling, multivariate analyses, and Bayesian models. Assisted with the implementation of the analyses in R, SAS, or JMP.

2016 Course Instructor

Iowa State University

Lectured for an introductory statistics course for non-statistics majors. Prepared and graded exams.

2015 Data Analyst

Research Administration Office, Lawrence University

Performed statistical analyses using SPSS to analyze data from a study to compare the academic success and mood towards the university from freshman to sophomore years.

2015 Lecturer of Mathematics

Lawrence University

Taught an introductory statistics course for non-statistics majors. Organized the curriculum. Prepared and graded homework and exams.

2013 - 2015 Teaching Assistant

University of Wisconsin, Madison

Led discussions for several undergraduate and graduate level introductory statistics courses. Graded homework and exams. Held office hours and worked in the statistics help room.

2014 - 2015 Academic Mentor for Minority and First Generation Undergraduates

Center for Academic Excellence, University of Wisconsin, Madison

Mentored minority and first generation undergraduate students enrolled in statistics courses. Met weekly throughout the semester with individuals or small groups to teach and review statistical concepts from class. Discussed strategies for academic success with students.

Data Collection Assistant

2014 - 2015 Research Administration Office, Lawrence University

Assisted with the data collection for a study on the evaluation of warning lights installed at a busy crosswalk on the university campus. Used Tracker software to determine the deceleration rate of vehicles from videos taken of cars approaching the crosswalk.

RESEARCH INTERESTS -

Contributed Posters _

Goode, K. and Hofmann, H. "Using LIME to Interpret a Random Forest Model with an Application to Bullet Matching Data", Iowa State University Graduate and Professional Student Research Conference, Contributed Poster. April 2019.

Goode, K. and Rey, K. "Introducing ggResidpanel: An R Package for Easy Visualization of Residuals". Kansas State University Conference on Applied Statistics in Agriculture. Contributed Poster. May 2018.

α						
~ ·	$\cap I$	T	w	7 A I	D I	Γ.

TEACHING EX	PERIENC	CE			
Seminar Leader	2018	Predictive plant phenomics graduate student bootcamp on statistics at Iowa State University. Topics included statistical concepts of randomization, confidence intervals, and design of experiments.			
Instructor	2016	STAT 101	Introduction to statistics at Iowa State University. Topics included summary statistics, visualizations, normal distribution, hypothesis testing, confidence intervals, and JMP.		
	2015	MATH 107	Elementary statistics at Lawrence University. Topics included summary statistics, visualizations, randomization tests, bootstrap, normal distribution, hypothesis testing, confidence intervals, and R.		
Teaching Assistant	2015	BMI 552	Regression methods for population health graduate students at UW Madison. Topics included simple and multiple linear regression, logistic regression, survival analysis, and SAS.		
	2014	BMI 551	Introduction to biostatistics for population health graduate students. Topics included summary statistics, visualizations, probability, normal distributions, hypothesis testing, confidence intervals, and R.		
	2014	STAT 301	Introduction to statistical methods for non-statistics majors at UW Madison. Topics included summary statistics, visualizations, probability, normal distributions, hypothesis testing, and confidence intervals.		
	2014	STAT 302	Accelerated introduction to statistical methods for statistics undergraduate majors at UW Madison. Topics included summary statistics, visualizations, randomization tests, bootstrap, normal distribution, hypothesis testing, confidence intervals, and R.		
	2013	STAT 371	Introductory applied statistics for the life sciences at UW Madison. Topics included summary statistics, visualizations, probability, normal distributions, hypothesis testing, confidence intervals, and R.		

Academic Mentor	2014 - 2015	Mentor for minority and first generation undergraduate students in introductory statistics courses at the UW Madison.			
Statistics Tutor	2014 - 2015	Tutor for undergraduate students in introductory statistics courses at the UW Madison.			
Service					
2018 - Current Student representative to ISU statistics departmental faculty meetings					
2018 - Current ST		ΓATCOM (Statistics in the Community) member			
2017 - 2	2019 IS	U STATers (Statistics Graduate Student Organization) recycling coordinator			
2017 - 2018 ST		ΓATCOM (Statistics in the Community) treasurer			
Computing S	SKILLS _				

Working Knowledge: GitHub, JMP, \LaTeX R, R Markdown, SAS, Shiny, SPSS

Basic Knowledge: C, Mathematica, SQL