CONTACT INFORMATION _			
	2207 Snedecor Hall Department of Statistics 2438 Osborn Dr, Ames, IA 50011	Email: kgoode@iastate.edu Phone: 920-904-7072 Website: https://goodekat.github.io/	
Education			
Jan 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		
Aug 2013 - May 2015	Master of Science, Statistics University of Wisconsin, Madison, WI		
Sep 2009 - June 2013	Bachelor of Arts, Mathematics Lawrence University, Appleton, WI Graduated Magna Cum Laude Senior Capstone: "An Explanation of Double-Error-Correcting BCH Codes"		
Summer 2012 Fall 2010	Study Abroad University of Granada, Centro de Lenguas Modernas, Spain Lawrence London Centre, England		
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	Presented to a student for excellent performance in multiple statistical efforts (teaching and consulting) as part of the graduate program. Lawrence University Deans List Lawrence University Richard Warch Presidential Scholarship Mortar Board Honor Society		
2009 - 2013 2009 - 2013 2012 - 2012 2010 - 2011			
Work Experience			
May 2018 - Current	Senior Statistical Consultant Agriculture Experiment Station, Iowa S Mentored and trained new consultants Helped the group adviser make admin Oversaw organizational tasks for the c Continued with statistical consultants	s istrative decisions consulting group	
May 2016 - Apr 2018	Statistical Consultant Agriculture Experiment Station, Iowa S	$State\ University$	
		ch projects for graduate students, professors	

ences, liberal arts and sciences, and veterinary medicine

and staff from the colleges of agriculture and life sciences, engineering, human sci-

- · Advised clients on study designs and statistical analysis methods in areas of statistics including exploratory analyses, linear (and mixed) models, generalized linear (and mixed) models, data visualization, predictive modeling, multivariate analyses, and Bayesian models
- · Assisted with the implementation of the analyses in R, SAS, and JMP

Dec 2015 Data Analyst

2014 STAT 301

Research Administration Office, Lawrence University

- · Analyzed data from a study to compare the academic success and mood towards the university of undergraduates from freshman to sophomore years
- · Performed statistical analyses using SPSS

Sep 2014 - May 2015

Academic Mentor for Minority and First Generation Undergraduates

Center for Academic Excellence, University of Wisconsin, Madison

- \cdot Mentored minority and first generation undergraduate students enrolled in statistics courses
- · Met weekly throughout the semester with individuals or small groups to review statistical concepts from class and make the material approachable
- \cdot Discussed and encouraged strategies for academic success

Data Collection Assistant

Sep 2014 - May 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

Introduction to statistical methods for non-statistics majors at UW Madison. Prepared and led discussions. Graded homework and exams. Held office hours. Topics included summary statistics, visualizations, probability, normal distributions, hypothesis testing, and confidence intervals.

Teaching Experience

TEACHING EXPERIENCE					
2018		at phenomics graduate student statistics bootcamp at Iowa State University. d statistical concepts of randomization, confidence intervals, and design of			
2016	STAT 101	Introduction to statistics at Iowa State University. Lectured, prepared, and graded exams. Topics included summary statistics, visualizations, normal distribution, hypothesis testing, confidence intervals, and JMP.			
2015	MATH 107	Elementary statistics at Lawrence University. Organized the curriculum. Prepared and graded homework and exams. Topics included summary statistics, visualizations, randomization tests, bootstrap, normal distribution, hypothesis testing, confidence intervals, and R.			
2015	BMI 552	Regression methods for population health graduate students at UW Madison. taught labs Held office hours. Topics included simple and multiple linear regression, logistic regression, survival analysis, and SAS.			
2014	BMI 551	Introduction to biostatistics for population health graduate students. taught labs Held office hours. Topics included summary statistics, visualizations, probability, normal distributions, hypothesis testing, confidence intervals, and R.			
	2018 2016 2015 2015	 2018 Predictive plan Topics include experiments. 2016 STAT 101 2015 MATH 107 2015 BMI 552 			

	2014	STAT 302	Accelerated introduction to statistical methods for statistics undergraduate majors at UW Madison. Prepared and led discussions. Graded homework and exams. Held office hours. 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. Prepared and led discussions. Graded homework and exams. Held office hours and worked in the statistics help room. Topics included summary statistics, visualizations, probability, normal distributions, hypothesis testing, confidence intervals, and R.			
Statistics Tutor		2014 - 2015	Tutor for undergraduate students in introductory statistics courses at UW Madison.			
RESEARCH INTE	ERESTS _					
Model Assessment, Data Visualization, Random Forest Models, Interpretation of Machine Learning Algorithms, Generalized Linear Mixed Models, R Package Development						
Ongoing Projects						
Development of diagnostic tools for the assessment of LIME applied to interpret random forest models. Part of PhD research project with Dr. Heike Hofmann.						
ggResidpanel: An R package for easy visualization of model diagnostic plots. Produces panels of diagnostic plots for one one, panels of plots for comparing multiple models, and interactive versions of the plots. Developed with Dr. Katie Rey. Source code can be found at https://goodekat.github.io/ggResidpanel/.						
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".						

ode, 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.

2018 - Current	Graduate student representative to ISU statistics department faculty meetings
2018 - Current	Member of StatCom (Statistics in the Community)
2017 - 2019	Recycling coordinator for ISU STATers (Statistics Graduate Student Organization)
2017 - 2018	Treasurer for StatCom

Computing Skills _____

Service _____

Working Knowledge: GitHub, JMP, $\mbox{\sc l}\mbox{\sc T}_{\mbox{\sc E}}\mbox{\sc X},$ R, R Markdown, SAS, Shiny, SPSS

Basic Knowledge: C, Mathematica