

CONTACT INFORMATION	2207 Snedecor Hall Department of Statistics 2438 Osborn Dr, Ames, IA 50011	<i>Email:</i> kgoode@iastate.edu <i>Phone:</i> 920-904-7072 <i>Website:</i> <a href="https://goodekat.github.io/">https://goodekat.github.io/</a>
EDUCATION	<p><b>Doctor of Philosophy, Statistics</b> <span style="float: right;">Current</span> Iowa State University, Ames, IA Expected Completion December 2020</p> <p><b>Master of Science, Statistics</b> <span style="float: right;">May 2015</span> University of Wisconsin, Madison, WI Master's Examination Completed Fall 2014</p> <p><b>Bachelor of Arts, Mathematics</b> <span style="float: right;">June 2013</span> Lawrence University, Appleton, WI Graduated Summa Cum Laude Capstone Title: An Explanation of Double-Error-Correcting BCH Codes</p> <p><b>Study Abroad</b> University of Granada <span style="float: right;">Summer 2012</span> Lawrence London Centre <span style="float: right;">Fall 2010</span></p>	
AWARDS	<p><i>ISU Department of Statistics Dan Mowrey Consulting Excellence Award</i> <span style="float: right;">2018</span> Awarded in recognition of outstanding contributions in the area of statistical consulting while working toward a graduate degree.</p> <p><i>ISU Department of Statistics Award for Experiential Development</i> <span style="float: right;">2017</span> Presented to a student for excellent performance in multiple statistical efforts as part of the graduate program.</p> <p><i>Lawrence University Richard Warch Presidential Scholarship</i> <span style="float: right;">2009-2013</span></p>	
RESEARCH INTERESTS	Data Visualization, Random Forest Models, Model Interpretation and Assessment, Generalized Linear Mixed Models, R Package Development	
EMPLOYMENT	<p><b>Agriculture Experiment Station, Iowa State University</b> <i>Statistical Consultant</i> <span style="float: right;">May 2016 - Current</span> Consult for graduate students, faculty, and staff from a wide range of departments at ISU on their research project. Provide statistical advice on analyses, writing code, and teaching proper statistical techniques. Train new consultants after first year of experience.</p> <p><b>Iowa State University</b> <i>Teaching Assistant</i> <span style="float: right;">Spring 2016</span> Lectured for an introductory statistics course for non-statistics majors. Prepared and graded exams.</p>	

**Research Administration Office, Lawrence University***Statistical Study Assistant*

September 2014 - June 2015, December 2015

Assisted with data collection and analysis for a study on the evaluation of warning lights installed at a busy crosswalk on the university campus.

**Lawrence University***Lecturer of Mathematics*

September 2015 - November 2015

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

**University of Wisconsin, Madison***Teaching Assistant*

Fall 2013 - Spring 2015

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

**Center for Academic Excellence, University of Wisconsin, Madison***Academic Mentor*

Fall 2014 - Spring 2015

Mentored minority and first generation undergraduate students enrolled in statistics courses. Provided statistics tutoring and tips for academic success to students in individual instruction sessions.

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.

## SOFTWARE

**ggResidpanel** R package for easy visualization of model diagnostic plots, developed with Katie Rey (<https://goodekat.github.io/ggResidpanel/>)

TEACHING  
EXPERIENCE**Iowa State University***Seminar Leader*

Summer 2018

Predictive Plant Phenomics Graduate Student Bootcamp on Statistics (statistical concepts of randomization, confidence intervals, and design of experiments)

*Instructor*

Spring 2016

Statistics 101: Introduction to Statistics (summary statistics, visualizations, normal distribution, hypothesis testing, confidence intervals, JMP)

**Lawrence University***Instructor*

Fall 2015

Mathematics 107: Elementary Statistics (summary statistics, visualizations, randomization tests, bootstrap, normal distribution, hypothesis testing, confidence intervals, R)

## University of Wisconsin, Madison

*Teaching Assistant* Spring 2015  
BMI 552: Regression Methods for Population Health Graduate Students (simple and multiple linear regression, logistic regression, survival analysis, SAS)

*Teaching Assistant* Fall 2014  
BMI 551: Introduction to Biostatistics for Population Health Graduate Students (summary statistics, visualizations, probability, normal distributions, hypothesis testing, confidence intervals, R)

*Teaching Assistant* Summer 2014  
Statistics 301: Introduction to Statistical Methods (summary statistics, visualizations, probability, normal distributions, hypothesis testing, confidence interval)

*Teaching Assistant* Spring 2014  
Statistics 302: Accelerated Introduction to Statistical Methods (summary statistics, visualizations, randomization tests, bootstrap, normal distribution, hypothesis testing, confidence intervals, R)

*Teaching Assistant* Fall 2013  
Statistics 371: Introductory Applied Statistics for the Life Sciences (summary statistics, visualizations, probability, normal distributions, hypothesis testing, confidence intervals, R)

*Academic Mentor* Fall 2014 - Spring 2015  
Mentor for students in introductory statistics courses at the University of Wisconsin, Madison.

*Statistics Tutor* Fall 2014 - Spring 2015  
Introductory Statistics Courses, University of Wisconsin, Madison

### SERVICE

#### Iowa State University

Student representative to departmental faculty meetings Fall 2018 - Current  
STATcom (Statistics in the Community) member Fall 2017 - Current  
STATers (Statistics Graduate Student Org) recycling coordinator Fall 2017-Current

### COMPUTING SKILLS

Working Knowledge: GitHub, LaTeX, R, R Markdown, SAS  
Basic Knowledge: JMP, SPSS