

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> Consulted for graduate students, faculty, and staff from a wide range of departments at ISU on their research project. Provided statistical advice on analyses, writing code, and teaching proper statistical techniques. Trained 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**

Graduate student representative to departmental faculty meetings Fall 2018 - Current

STATcom (Statistics in the Community) member Fall 2018-Current

### COMPUTING SKILLS

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