

# Susan Vanderplas

## Contact Information



515-509-6613



susan.vanderplas@unl.edu



340 Hardin Hall North Wing  
3310 Holdrege St.  
Lincoln, NE 68583-0961



<http://srvanderplas.netlify.app>



<http://github.com/srvanderplas>

## Experience

**2020-**

### **Assistant Professor**

Research in forensic statistics, data visualization, and image analysis.  
University of Nebraska Lincoln

**2018-2019**

### **Research Assistant Professor**

Developed statistical methods for forensic analysis of bullets and shoeprints. Supervised 4 MS students and several undergraduate research experiences  
Center for Statistics and Applications in Forensic Evidence, Iowa State University

**2015-2018**

### **Statistical Analyst**

Developed the Business Intelligence training program, including training in R, data analysis, and data visualization. Analyzed operations and economic data to determine ideal strategies for planning future work, assessing compliance with regulations, and understanding current operations.  
Nebraska Public Power District

**2012-2019**

### **Consultant**

Created shiny web applications to visualize and present data to the public. Worked with Iowa State researchers, Iowa Soybean Association, and Nebraska Public Power District.

## Education

**2009-2015**

**Ph.D. in Statistics**

Iowa State University, Ames, IA

**2009-2011**

**M.S. in Statistics**

Iowa State University, Ames, IA

**2005-2009**

**B.S. Psychology & Applied Mathematical Sciences**

Texas A&M University, College Station, TX

## Recent Publications

- 2020** Vanderplas, Roettger, Cook, Hofmann. *Statistical Significance Calculations for Scenarios in Visual Inference*  
Stat
- 2020** Vanderplas, Carriquiry, Hofmann, Hamby, Tai. *An introduction to firearms examination for researchers in statistics.*  
Handbook of Forensic Statistics
- 2020** Vanderplas, Nally, Klep, Cadevall, Hofmann. *Comparison of three similarity scores for bullet LEA matching*  
Forensic Science International
- 2020** Vanderplas, Cook, Hofmann. *Testing Statistical Charts: What Makes a Good Graph?*  
Annual Review of Statistics and Its Application
- 2019** Rutter, Vanderplas, Cook, Graham. *ggenealogy: An R Package for Visualizing Genealogical Data*  
Journal of Statistical Software
- 2019** Vanderplas, Goluch, Hofmann. *Framed! Reproducing and Revisiting 150 year old charts*  
Journal of Computational and Graphical Statistics
- 2019** Sievert, Vanderplas, Cai, Ferris, Khan, Hocking. *Extending ggplot for linked and animated web graphics*  
Journal of Computational and Graphical Statistics

## Recent Presentations

- 2020** Do You See What I See? Leveraging Human Perception in Computer Vision Tasks.  
Joint Statistical Meetings (Session Cancelled)
- 2020** Perception and Visual Communication in a Global Pandemic.  
Data Science, Statistics, and Visualization
- 2020** One of these things is not like the others: Visual Statistics and Testing in Statistical Graphics.  
Data Science Symposium, South Dakota State University
- 2020** Big Data, Big Experiments, and Big Problems.  
Plant and Animal Genome