Susan Vanderplas

Curriculum Vitae

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﴿ srvanderplas.github.io
 ♀ srvanderplas

	Education
2009	Ph.D., Statistics, Iowa State University
2009 2011	MS, Statistics, Iowa State University
2005	BS, Psychology & Applied Mathematical Sciences, Texas A&M University
	Professional Experience
2020	Assistant Professor, Statistics, University of Nebraska-Lincoln
Dec 2019	⁸ Research Assistant Professor, Center for Statistics and Applications in Forensic Evidence, Iowa State University
Aug 2015 Feb 2018	Statistical Analyst, Nebraska Public Power District
Apr 2015 Oct 2015	Postdoc, Office of the Vice President for Research, Iowa State University

Publications

Student advisees indicated with *. Contribution percentages estimated from git contributions using git fame where possible. Not all projects have github repositories for which this is meaningful. Most of these papers are highly collaborative, and intellectual contributions are typically shared between all authors.

ImageAlignR, Image registration algorithms for forensics, https://github.com/srvanderplas/imagealignr

Software

2021

Dates show initial involvement; only packages which are no longer maintained have end dates. ggpcp, Generalized parallel coordinate plots, https://github.com/heike/ggpcp vinference, Analysis of visual inference experiments, https://github.com/heike/vinference Identification of grooves in scans of bullet land https://github.com/heike/groovefinder 2019 cmcR, Automated matching of 3d cartridge case scans using the congruent matching cells algorithm, https://github.com/CSAFE-ISU/cmcR 2018 bulletxtrctr, Automated matching of 3d bullet scans, https://github.com/heike/bulletxtrctr 2018 **x3ptools**, Reading, manipulating, and visualizing x3p files, https://github.com/heike/x3ptools 2018 bulletsamplr, Resampling of bullet signatures, https://github.com/srvanderplas/bulletsamplr 2018 **ShoeScrapeR**. Acquisition of shoe images and metadata from online retailers. https://github.com/srvanderplas/shoescraper





2013	Signs of the Sine Illusion – why we need to care , $\it JSM$, Section on Statistical Graphics, Montreal, ON, CA
	Seminars
2024	Building a CV with R and Google Sheets, Graphics Group, University of Nebraska, Online
2024	Using Git Submodules, Graphics Group, University of Nebraska, Online
2023	Graphics and Cognition: How Do We Perceive Charts? , <i>Graphics Group</i> , University of Nebraska-Lincoln, Iowa State University, and other interested affiliates, Online
2023	What Makes a Good Graph? Graphical Testing and Principles for Graph Design, Center for Brain, Biology, and Behavior, University of Nebraska, Lincoln, NE
2023	Inconclusive Conclusions: Biases and Consequences , <i>Biostatistics</i> , Johns Hopkins University, Baltimore, MD
2022	Reproducible Science: Statistics, Forensics, and the Law \square , Statistics, University of Nebraska - Lincoln, Lincoln, NE
2022	How to make good charts \square , <i>Complex Biosystems</i> , University of Nebraska - Lincoln, Lincoln, NE
2022	Pandemics, Graphics, and Perception of Log Scales , <i>Math</i> , University of Nebraska - Omaha, Omaha, NE
2022	Automatic Acquisition of Footwear Class Characteristics , <i>Center for Statistical Applications in Forensic Evidence</i> , Online
2021	Pandemics, Graphics, and Perception of Log Scales , <i>NUMBATS</i> , Monash University, Melbourne, Vic, AUS
2021	Exploring Rural Quality of Life Using Data Science and Public Data , <i>QQPM</i> , University of Nebraska - Lincoln, Lincoln, NE
2021	Inconclusive Conclusions: Biases and Consequences , Law and Psychology Brown Bag, University of Nebraska - Lincoln, Lincoln, NE
2021	Visual Statistics: Communication and Graphical Testing , <i>Animal Science</i> , University of Nebraska - Lincoln, Lincoln, NE
2021	How to Make Good Charts , <i>Biological and Systems Engineering GSA</i> , University of Nebraska - Lincoln, NE
2020	Statistical Evaluation of Firearms and Toolmark Evidence \square , Statistics, University of Nebraska - Lincoln, NE
	Teaching
2024	STAT 151 , <i>Introduction to Statistical Computing</i> , University of Nebraska - Lincoln, Flipped synchronous
2024	STAT 251, Data Wrangling, University of Nebraska - Lincoln, Flipped synchronous
2023	STAT 151 , <i>Introduction to Statistical Computing</i> , University of Nebraska - Lincoln, Flipped synchronous. Evals: 4.55 (mean), 5 (median)
2023	STAT 251 , <i>Data Wrangling</i> , University of Nebraska - Lincoln, Flipped synchronous. Evals: 4.30 (mean), 5 (median)
2023	STAT 892 , <i>Data Technologies for Statistical Analysis</i> , University of Nebraska - Lincoln, Co-taught with ISU Stat 585, Hybrid synchronous

STAT 850. Computing Tools for Statisticians, University of Nebraska - Lincoln, Flipped synchronous. Evals: 4.31 (mean), 5 (median) 2022 STAT 892. Writing in Statistics/TA Prep. University of Nebraska - Lincoln, In person synchronous. Evals: 4.13 (mean), 4 (median) 2022 STAT 151. Introduction to Statistical Computing, University of Nebraska - Lincoln, Flipped synchronous Evals: 4.95 (mean), 5 (median) 2022 STAT 218. Introduction to Statistics, University of Nebraska - Lincoln, Online asynchronous. Evals: 3.72 (mean), 4 (median) 2022 STAT 850. Computing Tools for Statisticians, University of Nebraska - Lincoln, Flipped synchronous. Evals: 4.33 (mean), 5 (median) 2023 STAT 892. Writing in Statistics/TA Prep. University of Nebraska - Lincoln, In person synchronous. Evals: 4.29 (mean), 5 (median) 2023 STAT 892. Advanced Inference, University of Nebraska - Lincoln, Co-taught with Bertrand Clarke. Evals: 4.29 (mean), 5 (median) 2021 STAT 218, Introduction to Statistics, University of Nebraska - Lincoln, Online asynchronous. Evals: 4.01 (mean), 6 (median) 2021 STAT 850. Computing Tools for Statisticians, University of Nebraska - Lincoln, Hybrid, flipped, synchronous. Evals: 4.76 (mean), 5 (median) 2030 STAT 181. Introduction to Statistic, University of Nebraska - Lincoln, Hybrid, flipped, synchronous. Evals: 4.76 (mean), 5 (median) 2031 STAT 850. Computing Tools for Statisticians, University of Nebraska - Lincoln, Hybrid, flipped, synchronous. Evals: 4.76 (mean), 5 (median) 2032 STAT 850. Computing Tools for Statisticians, University of Nebraska - Lincoln, Hybrid, flipped, synchronous. Evals: 4.76 (mean), 5 (median) 2033 Muxin Ha, Automatic Recognition of Shoc Class Characteristics, University of Nebraska - Lincoln 2034 Muxin Ha, Automatic Recognition of Shoc Class Characteristics, University of Nebraska - Lincoln 2035 Muxin Ha, Automatic Recognition of Shoc Class Characteristics, University of Nebraska - Lincoln 2036 Recompliant of Predictive Model Diagnostics, co-advised with Dianne Cook and Emi Tanaka		
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Emily Robinson , <i>Perception of Log Scales</i> , co-advised with Reka Howard, University of Nebraska		
- Lincoln	2020	

	MS
2025	³ Carson Trego, A Statistical Approach to Learning Computer Vision, University of Nebraska - Lincoln
2022	Tyler Wiederich, Perception of Three Dimensional Graphics, University of Nebraska - Lincoln
2023 2022 2023	Muxin Ha, Automatic Recognition of Shoe Class Characteristics, University of Nebraska - Lincoln
2021	Jayden Stack , Automatic Recognition of Shoe Class Characteristics, University of Nebraska - Lincoln
2020	Ved Piyush, Machine Learning and Computer Vision, University of Nebraska - Lincoln
2019	Joseph Zemmels , <i>Analysis and Matching of Cartridge Cases</i> , co-advised with Heike Hofmann, Iowa State University
2019	Eryn Blagg , Analysis of Wear Development in Three-Dimensional Shoe Scans, co-advised with Heike Hofmann, Iowa State University
2018	Miranda Tilton, Footwear Class Characteristics and Computer Vision, Iowa State University
	Undergraduate
2021	Xinyu Liu , <i>Machine Learning for Shoe Sole Images</i> , UNL FYRE Program, University of Nebraska - Lincoln
2019	Jason Seo , <i>R package for visualization of neural networks using the python library keras-vis</i> , lowa State University
2018	Talen Fisher , Database engineering and tools for working with x3p files, Iowa State University
	Summer
2019	Molly McDermott and Andrew Maloney , <i>Bullet Scan Quality and Machine Learning</i> , Iowa State University
2019	Syema Ailia, Emmanuelle Hernandez Morales, Tiger Ji , Rapid quality control tools for confocal microscopy scans, Iowa State University
2018	Ben Wonderlin, Jenny Kim , Footwear Class Characteristics and Computer Vision, Young Engineers and Scientists Program, Iowa State University
	Service
	Discipline
/11/5	³ Member , Advisory Committee on Forensic Science, ASA
2023	Chair, Section on Statistical Graphics, ASA
2022	Chair-Elect, Section on Statistical Graphics, ASA
2021	Associate Editor, Journal of Computational and Graphical Statistics
2020	Associate Editor, R Journal
2020	Program Chair, Section on Statistical Graphics, ASA
2020	Program Committee (Graphics), Symposium on Data Science and Statistics (2020)

Member, Gertrude Cox Scholarship Committee, ASA

