Susan Vanderplas

Curriculum Vitae

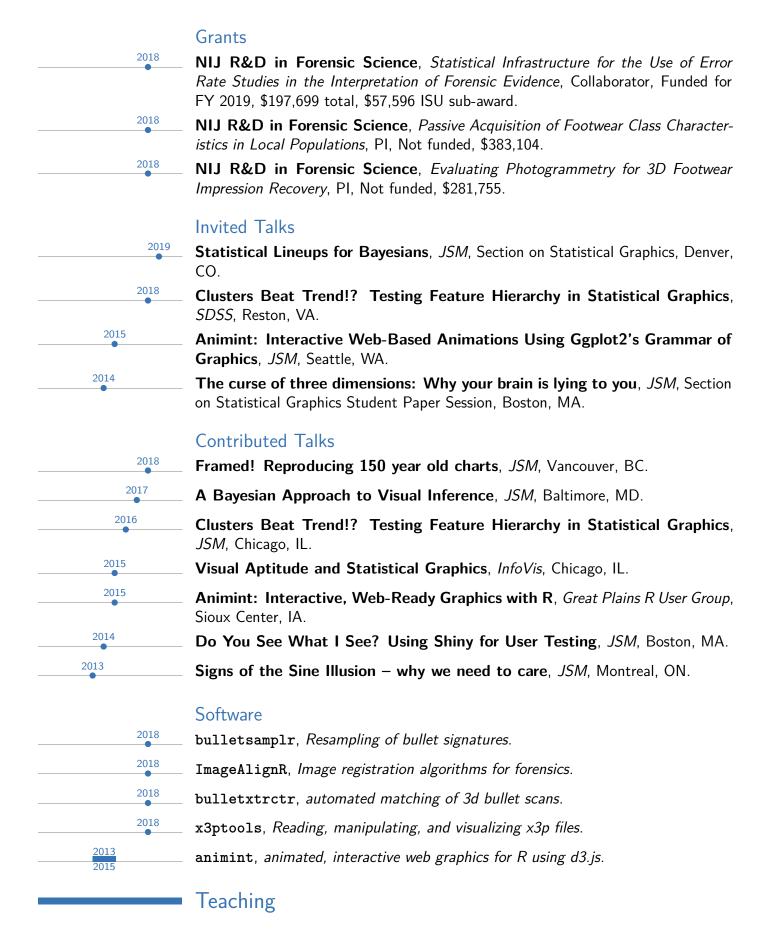
801 Onyx Cir Ames, IA 50010 ⑤ 515-509-6613 ⋈ srvander@iastate.edu ⑥ srvanderplas





Footwear Class Characteristic Recognition using Neural Networks Use convolutional neural networks to automate identification of class characteristics in images of footwear outsoles.

test sets used to test forensic examiner proficiency.



2019	Stat 585 - Data Technologies for Statistical Analysis, <i>Iowa State University</i> . Frequent guest lecturer, assisted with curriculum development
2017	Business Intelligence Embedded Agent Program, Nebraska Public Power District.
2017	Design and implement a program to mentor employees, providing instruction in data science and opportunities to apply new skills within the company. Lead one-on-one and group mentoring sessions to create a sense of community and reinforce skills learned through online courses. Class size: 16
	R Workshop, Nebraska Public Power District. 3-day internal course on using R for data analysis.
2013	R Workshops , <i>Iowa State</i> . Introduction to R, ggplot2, data management and cleaning, package development, literate programming, and Shiny.
2013	Statistical Methods for Research, <i>Iowa State</i> , TA. Stat 401
2013	Introduction to Business Statistics II, <i>Iowa State</i> , TA. Stat 326
2012	Introduction to Business Statistics II, <i>Iowa State</i> , TA. Stat 326
2011	Statistical Methods for Research , <i>Iowa State</i> , TA. Stat 401
2011	Empirical Methods for Computer Science , <i>Iowa State</i> , TA. Stat 430
	Mentoring and Advising
2018	Miranda Tilton, Statistics, Ph.D Footwear Class Characteristics and Computer Vision. Completed MS (Spring 2019).
2019	Jason Seo, Computer Science and Statistics, Undergraduate Research. R package for visualization of neural networks using the python library keras-vis.
2019	Jenny Ha , <i>Computer Science</i> , Undergraduate Research. Database design for storing bullet scans and intermediate analysis products.
2018	Talen Fisher , <i>Computer Engineering</i> , Undergraduate Research. Tools for working with x3p files, database design for storing bullet scans and intermediate analysis products.
2018	Ben Wonderlin and Jenny Kim , <i>Young Engineers and Scientists</i> , Summer 2018. Footwear Class Characteristics and Computer Vision
	Service
2019	Gertrude Cox Scholarship Committee Member, ASA.
2017	Graphics Section Representative to the Council of Sections, ASA.