Susan Vanderplas

Curriculum Vitae

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	Education
2015	PhD , <i>Statistics</i> , Iowa State University. Dissertation: The Perception of Statistical Graphics
2011	MS, Statistics, Iowa State University.
2009	BS, Psychology & Applied Mathematical Sciences, Texas A&M University.
	Professional Experience
2018	Research Assistant Professor , Center for Statistics and Applications in Forensic Evidence, Iowa State University.
2015 2018	Statistical Analyst, Nebraska Public Power District.
2015	Postdoc , Iowa State University Office of the Vice President for Research.
2014	Consultant. Develop web applications, interactive data displays, and statistical analyses for clients including the Iowa Soybean Association, ISU Agronomy Labs, and the USDA.
	Scholarship
	Contribution percentages estimated from git contributions using git fame where possible. Not all projects have github repositories for which this is meaningful.
2010	Journal Publications
7	Accepted; awaiting final review. Vanderplas, S., Goluch, R. & Hofmann, H. Framed! Reproducing 150 year old plots. Journal of Computational and Graphical Statistics. Contribution: Programming and analysis (60%), writing (50%).
6	Sievert, C., VanderPlas , S. , Cai, J., Ferris, K., Khan, F. U. F. & Hocking, T. D. Extending ggplot2 for linked and animated web graphics. <i>Journal of Computational and Graphical Statistics</i> .
5	Vanderplas , S. & Hofmann, H. Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics. <i>Journal of Computational and Graphical Statistics</i> 26 , 231–242.

Contribution: Programming and analysis (90%), writing (50%).



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	Contributed Talks
2018	Framed! Reproducing 150 year old charts, JSM, Vancouver, BC.
2017	A Bayesian Approach to Visual Inference, JSM, Baltimore, MD.
2016	Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics, <i>JSM</i> , Chicago, IL.
2015	Visual Aptitude and Statistical Graphics, InfoVis, Chicago, IL.
2015	Animint: Interactive, Web-Ready Graphics with R , <i>Great Plains R User Group</i> , Sioux Center, IA.
2014	Do You See What I See? Using Shiny for User Testing, JSM, Boston, MA.
2013	Signs of the Sine Illusion – why we need to care, JSM, Montreal, ON.
	Software
2018	bulletsamplr, Resampling of bullet signatures.
2018	ImageAlignR, Image registration algorithms for forensics.
2018	bulletxtrctr, automated matching of 3d bullet scans.
2018	x3ptools, Reading, manipulating, and visualizing x3p files.
2013 2015	animint, animated, interactive web graphics for R using d3.js.
	Teaching
2017 2018	Business Intelligence Embedded Agent Program, Nebraska Public Power District.
	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
2017	R Workshop, Nebraska Public Power District.
2014	R Workshops, Iowa State.
2012	Introduction to R, ggplot2, data management and cleaning, package development, literate programming, and Shiny.
2013	R Workshops, <i>lowa State</i> . Introduction to R, ggplot2, data management and cleaning, package development, literate
2013	programming, and Shiny. Statistical Methods for Research, Iowa State, TA.
2013	Stat 401 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, MS Creative Component. Footwear Class Characteristics and Computer Vision
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
2017 2019	Graphics Section Representative to the Council of Sections, ASA.