Susan Vanderplas

Curriculum Vitae

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Scholarship

Publications

Percentages estimated from git contributions using git fame where possible. Not all projects have github repositories for which this is meaningful.

2018 **Susan Vanderplas**, Ryan Goluch, and Heike Hofmann. Framed! Reproducing 150 year old plots. *Journal of Computational and Graphical Statistics*, 2018 Programming and analysis (60%), writing (50%).

C Sievert, J Cai, **S Vanderplas**, F Khan, K Ferris, and T Hocking. Extending ggplot2 for linked and dynamic web graphics. *Journal of Computational and Graphical Statistics*, 2018

2017 **Susan Vanderplas** and Heike Hofmann. Clusters beat Trend!? Testing feature hierarchy in statistical graphics. *Journal of Computational and Graphical Statistics*, 26(2):231–242, 2017

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

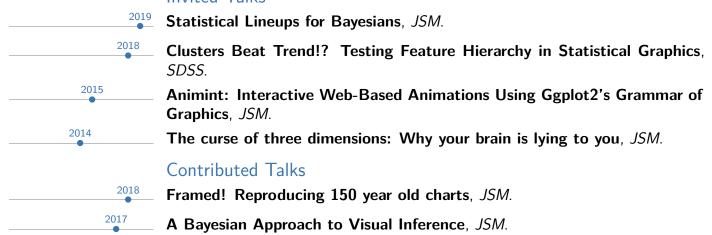
Lindsay Rutter, Susan Vanderplas, Dianne Cook, and Michelle Graham. ggeanealogy: An R Package for Visualizing Genealogical Data. Journal of Statistical Software, 2017

Heike Hofmann and Susan Vanderplas. All of this has happened before. All of this will happen again: Data Science. Journal of Computational and Graphical Statistics, 26(4):775–778, 2017 Writing (75%).

- 2016 **Susan Vanderplas** and Heike Hofmann. Spatial reasoning and data displays. *IEEE* Transactions on Visualization and Computer Graphics, 2016 Programming and analysis (90%), writing (75%).
- 2015 Susan Vanderplas and Heike Hofmann. Signs of the sine illusion why we need to care. Journal of Computational and Graphical Statistics, 24(4):1170-1190, 2015 Programming and analysis (50%), writing (60%).

- In Progress Visual Inference for Bayesians Examine two-target statistical lineups and the connection to Bayes Factors.
 - Truthiness and Statistical Charts Evaluate whether the truthiness effect (increased belief in a statement based on the presence of an accompanying picture) holds for statistical charts and maps.
 - Longitudinal Shoe Database Design a database for sharing longitudinal shoe wear data, including powder prints, 2D scans, 3D scans, pictures, and crimescene style casts and prints.
 - Bullet Signature Resampling Method for resampling bullet signatures used to calculate match and non-match score distributions.
 - Bullet Test Set Validation Validate an algorithm for bullet matching on several test sets used to test forensic examiner proficiency.
 - Continuous Integration and Unit Testing in Forensics Software Discussion of best practices for development of forensics software (continuous integration, unit testing, version control systems, and open-source licensing).
 - Footwear Class Characteristic Recognition using Neural Networks Use convolutional neural networks to automate identification of class characteristics in images of footwear outsoles.

Invited Talks





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. Ben Wonderlin and Jenny Kim , <i>Young Engineers and Scientists</i> , Summer 2018. Footwear Class Characteristics and Computer Vision
2017 2019	Service Graphics Section Representative to the Council of Sections, ASA.