Susan Vanderplas

A Professional Preparation

Organization and Location	Degree	Date	Field of Study
Iowa State University, Ames, IA, US	Ph.D.	05/2015	Statistics
Iowa State University, Ames, IA, US	M.S.	12/2011	Statistics
Texas A&M University, College Station, TX, US	B.S.	05/2009	Psychology & Applied Mathematical Sciences

B Appointments and Positions

2018 - 2019 Assistant Research Faculty, Iowa State University, Statistics, Ames, IA, US
2015 - 2018 Statistical Analyst, Nebraska Public Power District, Columbus, NE, US

C Publications

Most-closely related publications

1. Robinson E, Howard R, VanderPlas S. Eye Fitting Straight Lines in the Modern Era. Journal of Computational and Graphical Statistics. 2022 November 21. DOI: 10.1080/10618600.2022.2140668

2. VanderPlas S, Röttger C, Cook D, Hofmann H. Statistical significance calculations for scenarios in visual inference. Stat. 2021 February 22. DOI: 10.1002/sta4.337

3. Vanderplas S, Nally M, Klep T, Cadevall C, Hofmann H. Comparison of three similarity scores for bullet LEA matching. Forensic Science International. 2020 March. DOI: 10.1016/j.forsciint.2020.110167

4. VanderPlas S, Ryan G, Hofmann H. Framed! Reproducing and Revisiting 150-Year-Old Charts. Journal of Computational and Graphical Statistics. 2019 April 01; 28(3):620-634. DOI: 10.1080/10618600.2018.1562937

5. VanderPlas S, Hofmann H. Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics. Journal of Computational and Graphical Statistics. 2017 April 24; 26(2):231-242. DOI: 10.1080/10618600.2016.1209116

Significant Publications

1. VanderPlas S, Ge Y, Unwin A, Hofmann H. Penguins Go Parallel: A Grammar of Graphics Framework for Generalized Parallel Coordinate Plots. Journal of Computational and Graphical Statistics. 2023 April 21. DOI: 10.1080/10618600.2023.2195462

2. Wilhelm A, VanderPlas S. Visual Narratives of the Covid-19 pandemic. Journal of Data Science, Statistics, and Visualisation. 2022 November 28; 2(7):84-113. DOI: 10.52933/jdssv.v2i7.64

3. Vanderplas S. Designing Graphics Requires Useful Experimental Testing Frameworks and Graphics Derived from Empirical Results. Harvard Data Science Review. 2021 July 30. DOI: 10.1162/99608f92.7d099fd0

4. Hofmann H, Carriquiry A, Vanderplas S. Treatment of inconclusives in the AFTE range of conclusions. Law, Probability and Risk. 2020 December 01; 19(3-4):317-364. DOI: 10.1093/lpr/mgab002

5. Vanderplas S, Cook D, Hofmann H. Testing Statistical Charts: What Makes a Good Graph?. Annual Review of Statistics and Its Application. 2020 March 09; 7(1):61-88. DOI: 10.1146/annurev-statistics-031219-041252

D Synergistic activities

1. Development of an OER textbook covering statistical computing and data science skills in R and python with an emphasis on open-source software, data visualization, and reproducibility.

2. Writing amicus curiae briefs evaluating scientific support for forensic evidence evaluation techniques that are currently conducted visually (firearms, toolmark, footwear), including assessment of experimental design, empirically validated error rates, reproducibility, and validation of the underlying scientific principles used to support claims made about forensic evidence during courtroom testimony.

3. American Statistical Association Advisory committee on Forensic Science member (2023-2025)

4. American Statistical Association Section on Statistical Graphics Chair (2023-2024)

5. Associate Editor, Journal of Computational and Graphical Statistics