

Susan Vanderplas

Curriculum Vitae

515-509-6613
✉ svanderplas@gmail.com
🌐 svanderplas.github.io
in [svanderplas](#)
🔗 [svanderplas](#)

Education

- 2009
15 **Ph.D.**, *Statistics*, Iowa State University
- 2009
11 **MS**, *Statistics*, Iowa State University
- 2005
09 **BS**, *Psychology & Applied Mathematical Sciences*, Texas A&M University

Professional Experience

- Since 2024 **Associate Professor**, *Statistics*, University of Nebraska-Lincoln
- 2020
24 **Assistant Professor**, *Statistics*, University of Nebraska-Lincoln
- 2018
19 **Research Assistant Professor**, *Center for Statistics and Applications in Forensic Evidence*, Iowa State University
- 2015
18 **Statistical Analyst**, Nebraska Public Power District
- Apr 2015
Oct **Postdoc**, *Office of the Vice President for Research*, Iowa State University

Publications

Peer Reviewed Publications

Student advisees indicated with *.

2025

4. Fudolig, M. A., Robinson, E. A.*, and **Vanderplas, S.** (Apr. 1, 2025). "Can You See The Change? Visual Perception in Change Point Analysis". In: *Journal of Computational and Graphical Statistics* (ja), pp. 1–15. DOI: [10.1080/10618600.2025.2485278](https://doi.org/10.1080/10618600.2025.2485278).
3. Li, W., Cook, D., Tanaka, E., Vanderplas, S., and Ackermann, K. (Oct. 9, 2025). "Automated Residual Plot Assessment With the R Package autovi and the Shiny Application autovi.web". In: *Australian & New Zealand Journal of Statistics*. ISSN: 1467-842X. DOI: [10.1111/anzs.70027](https://doi.org/10.1111/anzs.70027). URL: <https://onlinelibrary.wiley.com/doi/abs/10.1111/anzs.70027>.
2. Robinson, E.*, Hofmann, H., and **Vanderplas, S.** (July 17, 2025). "A Guide to Designing Experiments to Test Statistical Graphics". In: *WIREs Computational Statistics* 17.2, e70032. ISSN: 1939-0068. DOI: [10.1002/wics.70032](https://doi.org/10.1002/wics.70032). URL: <https://onlinelibrary.wiley.com/doi/abs/10.1002/wics.70032>.
1. Robinson, E. A.*, Howard, R., and **Vanderplas, S.** (Mar. 11, 2025). "Perception and Cognitive Implications of Logarithmic Scales for Exponentially Increasing Data: Perceptual Sensitivity Tested with Statistical Lineups". In: *Journal of Computational and Graphical Statistics* (ja), pp. 1–14. DOI: [10.1080/10618600.2025.2476097](https://doi.org/10.1080/10618600.2025.2476097).

2024

8. Cuellar, M., **Vanderplas, S.**, Luby, A., and Rosenblum, M. (Dec. 5, 2024). "Methodological problems in every black-box study of forensic firearm comparisons". In: *Law, Probability and Risk* 23.1, mgae015. ISSN: 1470-8396. DOI: <https://doi.org/10.1093/lpr/mgae015>.
7. Ju, W., **VanderPlas, S.**, and Hofmann, H. (Jan. 24, 2024). "One Model That Fits Them All: Psychometrics With Generalized Linear Mixed Effects Models". In: *Electronic Imaging* 36, pp. 1–8. DOI: <https://doi.org/10.2352/EI.2024.36.1.VDA-358>.
6. Li, W.*, Cook, D., Tanaka, E., and **VanderPlas, S.** (May 22, 2024). "A Plot Is Worth a Thousand Tests: Assessing Residual Diagnostics with the Lineup Protocol". In: *Journal of Computational and Graphical Statistics*, pp. 1497–1511. ISSN: 1061-8600. DOI: <https://doi.org/10.1080/10618600.2024.2344612>.
5. Rogers, R.* and **VanderPlas, S.** (May 2, 2024). "Demonstrative Evidence and the Use of Algorithms in Jury Trials". In: *Journal of Data Science* 22.2, pp. 314–332. DOI: <https://doi.org/10.6339/24-JDS1130>.
4. Rosenblum, M., Chin, E. T., Ogburn, E. L., Nishimura, A., Westreich, D., Datta, A., **Vanderplas, S.**, Cuellar, M., and Thompson, W. C. (Jan. 9, 2024a). "Misuse of statistical method results in highly biased interpretation of forensic evidence in Guyll et al. (2023)". In: *Law, Probability and Risk* 23.1, mgad010. DOI: <https://doi.org/10.1093/lpr/mgad010>.

2023

3. **Vanderplas, S.**, Blankenship, E., and Wiederich, T.* (July 1, 2024). "Escaping Flatland: Graphics, Dimensionality, and Human Perception". In: *Human Interface and the Management of Information*. Ed. by H. Mori and Y. Asahi. Springer Nature Switzerland July 1, 2024, pp. 140–156. ISBN: 978-3-031-60114-9. DOI: https://doi.org/10.1007/978-3-031-60114-9_11.
2. **Vanderplas, S.**, Carriquiry, A., and Hofmann, H. (June 10, 2024). "Hidden Multiple Comparisons Increase Forensic Error Rates". In: *Proceedings of the National Academy of Sciences* 121.25, e2401326121. DOI: <https://doi.org/10.1073/pnas.2401326121>.
1. Wiederich, T.* and **Vanderplas, S.** (Apr. 24, 2024). "Evaluating Perceptual Judgements on 3D Printed Bar Charts". In: *Journal of Data Science* 22.2, pp. 176–190. ISSN: 1680743X. DOI: <https://doi.org/10.6339/24-JDS1131>.
4. Robinson, E.*, Howard, R., and **VanderPlas, S.** (Jan. 12, 2023a). "You Draw It: Implementation of visually fitted trends with r2d3". In: *Journal of Data Science* 21 (2), pp. 281–294. ISSN: 1680-743X. DOI: <https://doi.org/10.6339/22-JDS1083>.
3. Robinson, E. A.*, Howard, R., and **VanderPlas, S.** (Oct. 2, 2023b). "Eye Fitting Straight Lines in the Modern Era". In: *Journal of Computational and Graphical Statistics* 32.4, pp. 1537–1544. ISSN: 1061-8600. DOI: <https://doi.org/10.1080/10618600.2022.2140668>.
2. **VanderPlas, S.**, Ge, Y.*, Unwin, A., and Hofmann, H. (Apr. 21, 2023). "Penguins Go Parallel: a grammar of graphics framework for generalized parallel coordinate plots". In: *Journal of Computational and Graphical Statistics* 32.4, pp. 1572–1587. DOI: <https://doi.org/10.1080/10618600.2023.2195462>.
1. Zemmels, J.*, **Vanderplas, S.**, and Hofmann, H. (Feb. 9, 2023). "A Study in Reproducibility: The Congruent Matching Cells Algorithm and cmcR package". In: *R Journal* 14 (4), pp. 79–102. DOI: <https://doi.org/10.32614/RJ-2023-014>.

2022

2. Bradford, D.* and **VanderPlas, S.** (Dec. 2022). "Exploring Rural Shrink Smart Through Guided Discovery Dashboards". In: *Journal of Data Science*, pp. 1–12. ISSN: 1680-743X. DOI: <https://doi.org/10.6339/22-JDS1080>.
1. Wilhelm, A. and **VanderPlas, S.** (Nov. 1, 2022). "Visual Narratives of the Covid-19 pandemic". In: *Journal of Data Science, Statistics, and Visualisation* 2.7, pp. 84–113. DOI: <https://doi.org/10.52933/jdssv.v2i7.64>.

2021

2. Hofmann, H., Carriquiry, A., and **Vanderplas, S.** (May 5, 2021). "Treatment of inconclusives in the AFTE range of conclusions". In: *Law, Probability and Risk* 19.3-4, pp. 317–364. ISSN: 1470-8396. DOI: <https://doi.org/10.1093/lpr/mgab002>.
1. **Vanderplas, S.**, Röttger, C., Cook, D., and Hofmann, H. (Dec. 1, 2021). "Statistical significance calculations for scenarios in visual inference". In: *Stat* 10.1, e337. DOI: <https://doi.org/10.1002/sta4.337>.

2020

2. **Vanderplas, S.**, Cook, D., and Hofmann, H. (Mar. 1, 2020). "Testing Statistical Charts: What Makes a Good Graph?" In: *Annual Review of Statistics and Its Application* 7.1, pp. 61–88. DOI: <https://doi.org/10.1146/annurev-statistics-031219-041252>.

pre 2020

1. **Vanderplas, S.**, Nally, M., Klep, T., Cadevall, C., and Hofmann, H. (Mar. 1, 2020). "Comparison of three similarity scores for bullet LEA matching". In: *Forensic Science International* 308, p. 110167. ISSN: 0379-0738. DOI: <https://doi.org/10.1016/j.forsciint.2020.110167>.
8. Rutter, L., **Vanderplas, S.**, Cook, D., and Graham, M. (May 29, 2019). "ggenealogy: An R Package for Visualizing Genealogical Data". In: *Journal of Statistical Software* 89.13, pp. 1–31. DOI: <https://doi.org/10.18637/jss.v089.i13>.
7. Sievert, C., **Vanderplas, S.**, Cai, J., Ferris, K., Khan, F. U. F., and Hocking, T. D. (Apr. 1, 2019). "Extending ggplot2 for Linked and Animated Web Graphics". In: *Journal of Computational and Graphical Statistics* 28.2, pp. 299–308. DOI: <https://doi.org/10.1080/10618600.2018.1513367>.
6. **Vanderplas, S.**, Goluch, R. C., and Hofmann, H. (Apr. 1, 2019). "Framed! Reproducing and Revisiting 150-Year-Old Charts". In: *Journal of Computational and Graphical Statistics* 28.3, pp. 620–634. DOI: <https://doi.org/10.1080/10618600.2018.1562937>.
5. **Vanderplas, S.** and Hofmann, H. (Apr. 24, 2017). "Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics". In: *Journal of Computational and Graphical Statistics* 26.2, pp. 231–242. DOI: <https://doi.org/10.1080/10618600.2016.1209116>.
4. **VanderPlas, S.** and Hofmann, H. (Dec. 31, 2016). "Spatial Reasoning and Data Displays". In: *IEEE Transactions on Visualization and Computer Graphics* 22.1, pp. 459–468. DOI: <https://doi.org/10.1109/TVCG.2015.2469125>.
3. **Vanderplas, S.** and Hofmann, H. (Dec. 10, 2015). "Signs of the Sine Illusion - why we need to care". In: *Journal of Computational and Graphical Statistics* 24.4, pp. 1170–1190. DOI: <https://doi.org/10.1080/10618600.2014.951547>.
2. Towfic, F., **Vanderplas, S.**, Oliver, C. A., Couture, O., Tuggle, C. K., Greenlee, M. H. W., and Honavar, V. (Apr. 29, 2010). "Detection of gene orthology from gene co-expression and protein interaction networks". In: *BMC bioinformatics* 11.Suppl 3, S7. DOI: <https://doi.org/10.1186/1471-2105-11-S3-S7>.
1. Hull, R., Bortfeld, H., and **Koons, S.** (Apr. 3, 2009). "Near-infrared spectroscopy and cortical responses to speech production". In: *The open neuroimaging journal* 3, p. 26. DOI: <https://doi.org/10.2174/1874440000903010026>.

Book Chapters

1. **Vanderplas, S.**, Carriquiry, A., Hofmann, H., Hamby, J., and Tai, X. H. (May 30, 2022). "An introduction to firearms examination for researchers in statistics". In: *Handbook of Forensic Statistics*. Ed. by Banks, D., Kafadar, K., Kaye, D., and Tackett, M. New York: Chapman and Hall/CRC May 30, 2022, pp. 365–390. DOI: <https://doi.org/10.1201/9780367527709>.

Letters

1. Rosenblum, M., Chin, E. T., Ogburn, E. L., Nishimura, A., Westreich, D., Datta, A., **Vanderplas, S.**, Cuellar, M., and Thompson, W. C. (Nov. 5, 2024b). "Incorrect statistical reasoning in Guyll et al. leads to biased claims about strength of forensic evidence". In: *Proceedings of the National Academy of Sciences* 121.45, e2315431121. DOI: <https://doi.org/10.1073/pnas.2315431121>.

Other Publications

6. Bilder, C. and **Vanderplas, S.** (Jan. 1, 2026). *University of Nebraska Regents Vote to Eliminate Statistics Department*. AMSTAT News Jan. 1, 2026. URL: <https://magazine.amstat.org/blog/2026/01/01/university-of-nebraska/> (visited on 01/16/2026).
5. **Vanderplas, S.** and Hofmann, H. (Oct. 10, 2025). *Statistics: An Essential Department for a Modern R1 University*. Academic Planning Committee Department Elimination Defense. Lincoln, NE: University of Nebraska Oct. 10, 2025. URL: <https://srvanderplas.github.io/2025-stat-apc-report/>.
4. *Submitted as an invited response to Hullman & Gelman's "Designing for Interactive Exploratory Data Analysis Requires Theories of Graphical Inference"*.
VanderPlas, S. (July 30, 2021). "Designing Graphics Requires Useful Experimental Testing Frameworks and Graphics Derived From Empirical Results". In: *Harvard Data Science Review* 3.3. DOI: <https://doi.org/10.1162/99608f92.7d099fd0>.
3. Carriquiry, A., Hofmann, H., Tai, X. H., and **Vanderplas, S.** (Apr. 1, 2019). "Machine learning in forensic applications". In: *Significance* 16.2, pp. 29–35. DOI: <https://doi.org/10.1111/j.1740-9713.2019.01252.x>.
2. *Submitted as an invited response to Donoho's "50 years of Data Science"*.
Hofmann, H. and **Vanderplas, S.** (Dec. 19, 2017). "All of This Has Happened Before. All of This Will Happen Again: Data Science". In: *Journal of Computational and Graphical Statistics* 26.4, pp. 775–778. DOI: <https://doi.org/10.1080/10618600.2017.1385474>.
1. Budrus, S., **Vanderplas, S.**, and Cook, D. (June 13, 2013). "In tennis, do smashes win matches?" In: *Significance* 10.3, pp. 35–38. DOI: <https://doi.org/10.1111/j.1740-9713.2013.00665.x>.

Software

Dates show initial involvement; only packages which are no longer maintained have end dates.

2024	courtr , <i>Tools to create visually appealing courtroom studies</i> https://github.com/rachelesrogers/courtr
2023	highlightr , <i>Analysis of edited text data</i> https://github.com/rachelesrogers/highlightr
2021	ggpcp , <i>Generalized parallel coordinate plots</i> https://github.com/heike/ggpcp
2020	vinference , <i>Analysis of visual inference experiments</i> https://github.com/heike/vinference
2019 21	groovefinder , <i>Identification of grooves in scans of bullet land engraved areas</i> https://github.com/heike/groovefinder
2019	cmcR , <i>Automated matching of 3d cartridge case scans using the congruent matching cells algorithm</i> https://github.com/CSAFE-ISU/cmcR
2018	bulletxtrctr , <i>Automated matching of 3d bullet scans</i> https://github.com/heike/bulletxtrctr
2018	x3ptools , <i>Reading, manipulating, and visualizing x3p files</i> https://github.com/heike/x3ptools
2018	bulletsamplr , <i>Resampling of bullet signatures</i> https://github.com/srvanderplas/bulletsamplr
2018 20	ShoeScapeR , <i>Acquisition of shoe images and metadata from online retailers</i> https://github.com/srvanderplas/shoescraper
2018 21	ImageAlignR , <i>Image registration algorithms for forensics</i> https://github.com/srvanderplas/imagealignr
2013 15	animint , <i>Animated, interactive web graphics for R using ggplot2 and d3.js</i> https://github.com/tdhock/animint

Grants

2025 2030	NSF: CAREER , <i>What Do You See? Perception, Decisions, and Statistical Graphics</i> , PI, Total: \$550,000
2021 2023	NIJ: R&D In Forensic Science , <i>Automatic Acquisition and Identification of Footwear Class Characteristics</i> , PI, Total: \$380,650
2021 2022	USDA-NIFA: Agriculture and Food Research Initiative , <i>Corn Residue Adaptive Grazing Strategies</i> , Collaborator, Total: \$300,000
2020 2025	NIST: Center for Statistics and Applications in Forensic Evidence , <i>Footwear Class Characteristics and Human Factors</i> , PI, Total: \$20,000,000, Sub: \$456,930
2021 2023	USDA-NRCS: Conservation Innovation Grant On-Farm Trials , <i>Improving the Economic and Ecological Sustainability of US Crop Production through On-Farm Precision Experimentation</i> , PI, Total: \$4,000,000, Sub: \$400,000 (Split between 3 UNL co-PIs)

2020
2023

NSF: Smart and Connected Communities, *Overcoming the Rural Data Deficit to Improve Quality of Life and Community Services in Smart & Connected Small Communities*, PI, Total: \$1,500,000, Sub: \$123,445

2019
2020

NIJ: R&D In Forensic Science, *Statistical Infrastructure for the Use of Error Rate Studies in the Interpretation of Forensic Evidence*, Collaborator, Total: \$197,699, Sub: \$57,596

Awards


2025
2030

CAREER Award, *National Science Foundation*

2012

Student Paper Award, *Graphics Section, American Statistical Association*

Talks

 provides a link to slides, where available

Invited


2025

Hidden Multiple Comparisons Increase Forensic Error Rates , *ENAR Spring Meeting*, New Orleans, Louisiana


2024

Web Scraping Olympics: Python , *Statistical Computing Section Mini-Symposium*, Online


2024

A Plot is Worth a Thousand Tests: Assessing Residual Diagnostics with the Lineup Protocol , *JSM*, Section on Statistical Graphics, Portland, Or


2024

Escaping Flatland: Graphics, Dimensionality, and Human Perception , *Human Computer Interaction International*, Washington DC


2024

Cultivating Insights: Harnessing the Power of Data Visualization in Agriculture , *International Conference for On-Farm Precision Experimentation*, Corpus Christie, TX


2023

Multimodal User Testing: Producing comprehensive, task-focused guidelines for chart design , *Australian Statistical Conference*, Wollongong, NSW, AUS


2023

How Do You Define a Circle? Perception and Computer Vision Diagnostics , *International Association for Statistical Computing*, Asian Regional Section Meeting, Macquarie, NSW, AUS

2023

Multimodal User Testing: Producing comprehensive, task-focused guidelines for chart design , *International Conference on Data Science*, Universidad Diego Portales, Chile


2023

Testing Statistical Graphics , *JSM*, Section on Statistical Graphics, Toronto, ON, CA

2021

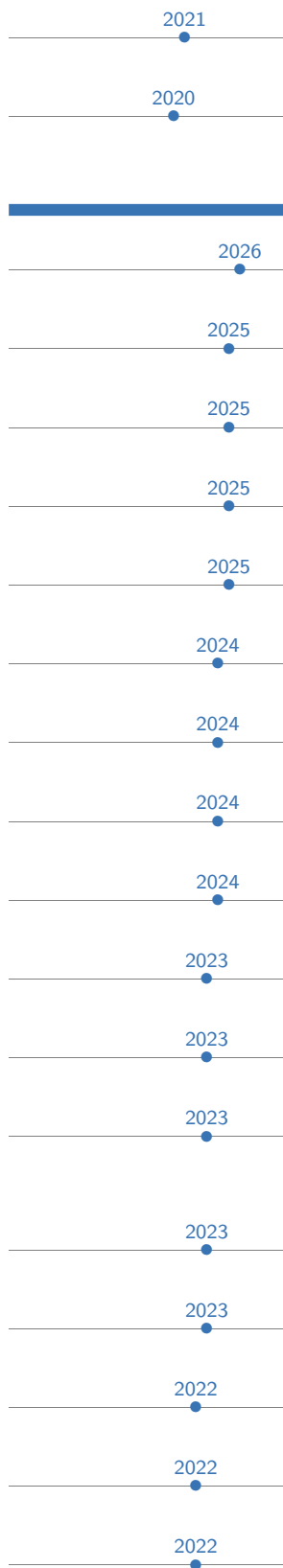
How do you define a circle? Perception and Computer Vision Diagnostics , *JSM*, Section on Statistical Graphics, Seattle, WA


2021

Pandemics, Graphics, and Perception of Log Scales , *R Ladies DC*, Washington, DC

2020	Perception and Visual Communication in a Global Pandemic 📄 , <i>Data Science, Statistics, and Visualization</i> , SAMSI, Online
2020	One of these things is not like the others: Visual Statistics and Testing in Statistical Graphics 📄 , <i>Data Science Symposium</i> , South Dakota State University, Brookings, SD
2020	Big Data, Big Experiments, and Big Problems 📄 , <i>Plant and Animal Genome</i> , San Diego, CA
2019	Statistical Lineups for Bayesians 📄 , <i>JSM</i> , Section on Statistical Graphics, Denver, CO
2018	Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics 📄 , <i>SDSS</i> , Reston, VA
2015	Animint: Interactive Web-Based Animations using Ggplot2's Grammar of Graphics 📄 , <i>JSM</i> , Section on Statistical Graphics, Seattle, WA
2014	The curse of three dimensions: Why your brain is lying to you 📄 , <i>JSM</i> , Section on Statistical Graphics, Boston, MA
	Contributed
2025	Teaching Statistical Computing with R and Python 📄 , <i>useR!</i> , Durham, NC
2025	Hidden Multiple Comparisons Increase Forensic Error Rates 📄 , <i>Joint Statistical Meetings</i> , Forensics Interest Group, Nashville, TN
2022	Local Population Footwear Class Characteristics - An End-to-End Pipeline for Automatic Data Acquisition and Analysis 📄 , <i>International Association for Identification Meeting</i> , Omaha, NE
2022	From Scans to Scores , <i>International Association for Identification Meeting</i> , Omaha, NE
2022	How do you define a circle? Perception and Computer Vision Diagnostics 📄 , <i>SDSU Data Science Symposium</i> , South Dakota State University, Brookings, SD
2021	Welcome to Forensic Statistics 📄 , <i>Data Mishaps Night</i> , Online
2018	Framed Charts in the 1870 Statistical Atlas 📄 , <i>JSM</i> , Section on Statistical Graphics, Vancouver, BC, CA
2017	A Bayesian Approach to Visual Inference , <i>JSM</i> , Section on Statistical Graphics, Baltimore, MD
2016	Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics 📄 , <i>JSM</i> , Section on Statistical Graphics, Chicago, IL
2015	Visual Aptitude and Statistical Graphics , <i>InfoVis</i> , IEEE, Chicago, IL
2014	Do You See What I See? Using Shiny for User Testing 📄 , <i>JSM</i> , Section on Statistical Graphics, Boston, MA
2014	Animint: Interactive, Web-Ready Graphics with R 📄 , <i>Great Plains R User Group</i> , Sioux Center, IA

2013	Signs of the Sine Illusion – why we need to care , <i>JSM</i> , Section on Statistical Graphics, Montreal, ON, CA
	Seminars
2025	The Metrics 🔗 , <i>Budget Cuts</i> , University of Nebraska - Lincoln, Lincoln, NE
2024	Creating Effective Graphics 🔗 , <i>Undergraduate Creative Activities and Research Experience</i> , Lincoln, NE
2024	Creating Good Graphics 🔗 , <i>UNL REU seminar</i> , University of Nebraska - Lincoln, Lincoln, NE
2024	Graphical Perception in a Pandemic: Log Scales, Exponential Growth, and the Importance of User Testing , <i>University of Illinois Chicago School of Public Health</i> , Epidemiology and Biostatistics Seminar, Chicago, IL (Online)
2024	Building a CV/Blog Automatically 🔗 , <i>Graphics Group</i> , University of Nebraska, Online
2024	Building a CV with R and Google Sheets 🔗 , <i>Graphics Group</i> , University of Nebraska, Online
2024	Using Git Submodules 🔗 , <i>Graphics Group</i> , 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 🔗 , <i>Center for Brain, Biology, and Behavior</i> , 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 🔗 , <i>Statistics</i> , University of Nebraska - Lincoln, Lincoln, NE
2022	How to make good charts 🔗 , <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 🔗 , <i>Law and Psychology Brown Bag</i> , University of Nebraska - Lincoln, Lincoln, NE
2021	Visual Statistics: Communication and Graphical Testing 🔗 , <i>Animal Science</i> , University of Nebraska - Lincoln, Lincoln, NE



How to Make Good Charts , *Biological and Systems Engineering GSA*, University of Nebraska - Lincoln, Lincoln, NE

Statistical Evaluation of Firearms and Toolmark Evidence , *Statistics*, University of Nebraska - Lincoln, Lincoln, NE

Teaching

STAT 349, *Technical Skills for Statisticians*, University of Nebraska – Lincoln, In person synchronous

STAT 151, *Introduction to Statistical Computing*, University of Nebraska – Lincoln, Flipped synchronous. Evals: 3.90 (mean), 4 (median)

STAT 349, *Technical Skills for Statisticians*, University of Nebraska – Lincoln, In person synchronous. Evals: 4.00 (mean), 4 (median)

STAT 351, *Statistical Computing II - Data Management and Visualization*, University of Nebraska – Lincoln, In person synchronous

STAT 850, *Computing Tools for Statisticians*, University of Nebraska – Lincoln, Flipped synchronous

STAT 151, *Introduction to Statistical Computing*, University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.50 (mean), 5 (median)

STAT 251, *Data Wrangling*, University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.69 (mean), 5 (median)

STAT 892, *Writing in Statistics/TA Prep*, University of Nebraska – Lincoln, In person synchronous

Stat 992, *Special Topics in Data Visualization*, University of Nebraska – Lincoln, In person synchronous. Evals: 4.82 (mean), 5 (median)

STAT 151, *Introduction to Statistical Computing*, University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.55 (mean), 5 (median)

STAT 251, *Data Wrangling*, University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.30 (mean), 5 (median)

STAT 892, *Data Technologies for Statistical Analysis*, University of Nebraska – Lincoln, Co-taught with ISU Stat 585, Hybrid synchronous. Evals: 4.45 (mean), 4 (median)

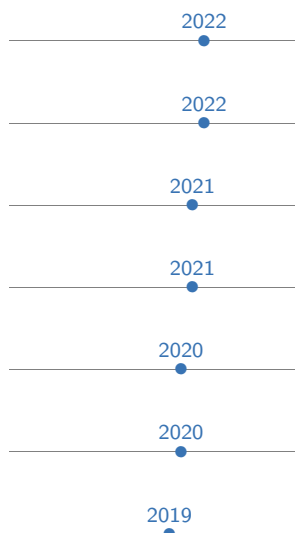
STAT 850, *Computing Tools for Statisticians*, University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.31 (mean), 5 (median)

STAT 892, *Writing in Statistics/TA Prep*, University of Nebraska – Lincoln, In person synchronous. Evals: 4.13 (mean), 4 (median)

STAT 151, *Introduction to Statistical Computing*, University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.95 (mean), 5 (median)

STAT 218, *Introduction to Statistics*, University of Nebraska – Lincoln, Online asynchronous. Evals: 3.72 (mean), 4 (median)

STAT 850, *Computing Tools for Statisticians*, University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.33 (mean), 5 (median)



STAT 892, *Writing in Statistics/TA Prep*, University of Nebraska – Lincoln, In person synchronous. Evals: 4.29 (mean), 5 (median)

STAT 982, *Advanced Inference*, University of Nebraska – Lincoln, Co-taught with Bertrand Clarke. Evals: 4.34 (mean), 5 (median)

STAT 218, *Introduction to Statistics*, University of Nebraska – Lincoln, Online asynchronous.. Evals: 4.01 (mean), 4 (median)

STAT 850, *Computing Tools for Statisticians*, University of Nebraska – Lincoln, Hybrid, flipped, synchronous. Evals: 4.79 (mean), 5 (median)

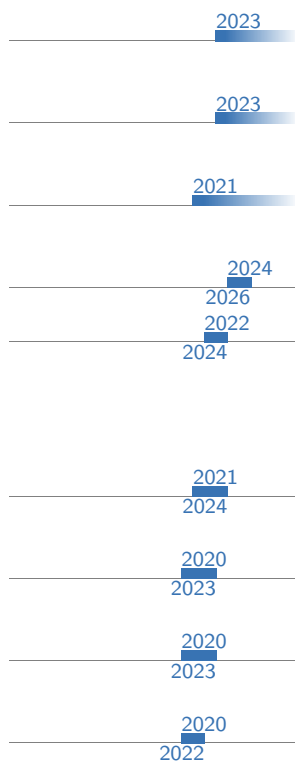
STAT 218, *Introduction to Statistics*, University of Nebraska – Lincoln, Initially in person synchronous, then online asynchronous. Evals: 4.20 (mean), 4 (median)

STAT 850, *Computing Tools for Statisticians*, University of Nebraska – Lincoln, Hybrid, flipped, synchronous. Evals: 4.76 (mean), 5 (median)

STAT 585, *Data Technologies for Statistical Analysis*, Iowa State, Co-taught with Heike Hofmann. Evals: 4.92 (mean), 5 (median)

Mentoring

Ph.D.



Tyler Wiederich, *Perception of Three Dimensional Graphics*, University of Nebraska - Lincoln

Muxin Ha, *Automatic Recognition of Shoe Class Characteristics*, University of Nebraska - Lincoln

Denise Bradford, *Dashboards for Exploratory Multivariate Data Analysis*, University of Nebraska - Lincoln

Harriet Mason, Monash University

Weihao (Patrick) Li, *Advances in Artificial Intelligence for Data Visualization: Developing Computer Vision Models to Automate Reading of Data Plots, with Application to Predictive Model Diagnostics*, co-advised with Dianne Cook and Emi Tanaka, Monash University

Rachel Rogers, *Explainable Machine Learning for Forensics in Courtrooms*, University of Nebraska - Lincoln

Alison Kleffner, *Spatial Statistics and Visualization in Ecology and Agriculture*, co-advised with Yawen Guan, University of Nebraska - Lincoln

Joseph Zemmels, *Analysis and Matching of Cartridge Cases*, co-advised with Heike Hofmann, Iowa State University

Emily Robinson, *Perception of Log Scales*, co-advised with Reka Howard, University of Nebraska - Lincoln

MS

2024	Dinuwanthi Lianage , University of Nebraska
2024	Nicole Harms , University of Nebraska
2026	Maksuda Aktar Toma , <i>An Historical Analysis of Pie and Bar Chart Experiments</i> , University of Nebraska - Lincoln
2024	
2025	
2022	Tyler Wiederich , <i>Perception of Three Dimensional Graphics</i> , University of Nebraska - Lincoln
2023	
2022	Muxin Ha , <i>Automatic Recognition of Shoe Class Characteristics</i> , University of Nebraska - Lincoln
2023	
2021	Jayden Stack , <i>Automatic Recognition of Shoe Class Characteristics</i> , University of Nebraska - Lincoln
2022	
2020	Ved Piyush , <i>Machine Learning and Computer Vision</i> , University of Nebraska - Lincoln
2019	Joseph Zemmels , <i>Analysis and Matching of Cartridge Cases</i> , co-advised with Heike Hofmann, Iowa State University
2020	
2019	Eryn Blagg , <i>Analysis of Wear Development in Three-Dimensional Shoe Scans</i> , co-advised with Heike Hofmann, Iowa State University
2020	
2018	Miranda Tilton , <i>Footwear Class Characteristics and Computer Vision</i> , Iowa State University
2019	

Undergraduate

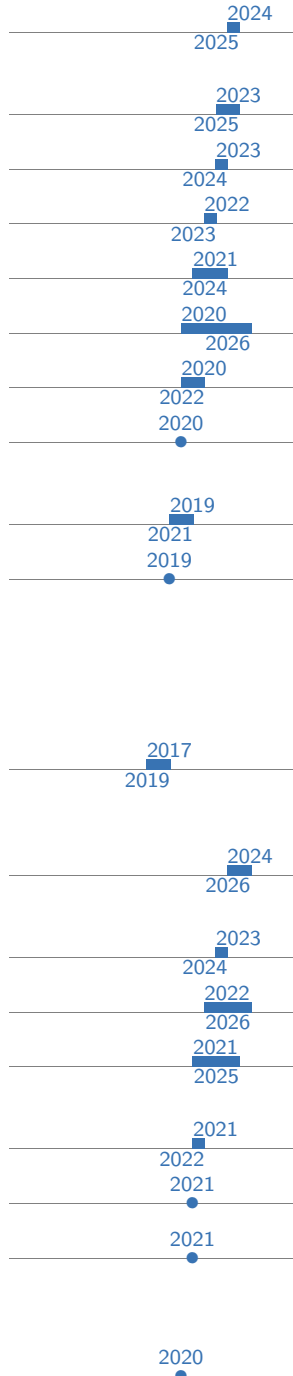
2025	Mason Chandler , <i>The Quantitative Display of Insanity</i> , UNL Undergraduate Research Program, University of Nebraska
2026	
2024	Mason Chandler , <i>An Historical Analysis of Pie and Bar Chart Experiments</i> , UNL FYRE Program, University of Nebraska
2025	
2024	Olivia Walker , <i>An Historical Analysis of Pie and Bar Chart Experiments</i> , UNL FYRE Program, University of Nebraska
2025	
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> , Iowa State University
2018	Talen Fisher , <i>Database engineering and tools for working with x3p files</i> , Iowa State University
2019	

Summer

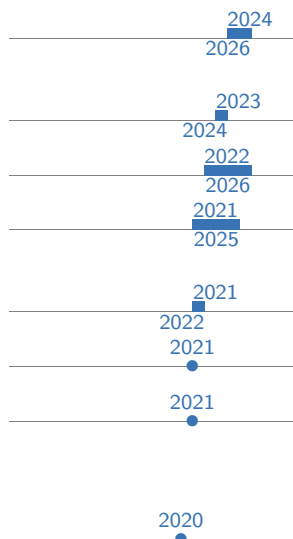
2019	Molly McDermott and Andrew Maloney , <i>Bullet Scan Quality and Machine Learning</i> , Iowa State University
2019	Syema Ailia, Emmanuelle Hernandez Morales, Tiger Ji , <i>Rapid quality control tools for confocal microscopy scans</i> , Iowa State University
2018	Ben Wonderlin, Jenny Kim , <i>Footwear Class Characteristics and Computer Vision</i> , Young Engineers and Scientists Program, Iowa State University

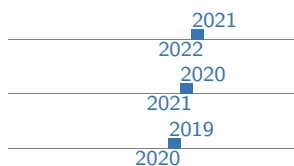
Service

Discipline



Institution





Department

Member, *MS Comprehensive Exam Committee*

Organizer, *Seminar*, Statistics Department

Member, *Undergraduate Program Committee*, Statistics Department, Design the undergraduate statistics program, propose new classes to support the program, and submit proposals to the university for new courses and programs.

Reviewing I have provided peer reviews for Journal of Open Source Software, CRC/Chapman & Hall, Forensic Science International, Journal of Statistics and Data Science Education, R Journal, IEEE InfoVis, Journal of Computational and Graphical Statistics, Symmetry, Forensic Sciences Research, Law, Probability, and Risk, Harvard Data Science Review, Journal of the American Statistical Association, The American Statistician

References

Alicia Carriquiry

Professor
Department of Statistics
Iowa State University
✉ alicia@iastate.edu
☎ 515-451-3322

Dianne Cook

Professor
Department of Econometrics and
Business Statistics
Monash University
✉ dicook@monash.edu
☎ +61 (0)3990 52608

Kimberly Stanke

Assistant Professor of Practice
Science Literacy and Data Analytics
Extension Specialist
University of Nebraska Lincoln
✉ kstanke2@unl.edu
☎ 810-955-7625

Heike Hofmann

Professor
Department of Statistics
University of Nebraska Lincoln
✉ hhofmann4@unl.edu
☎ 515-294-8948