

Susan Vanderplas

Curriculum Vitae

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Education

2009	Ph.D. , <i>Statistics</i> , Iowa State University
2009	MS , <i>Statistics</i> , Iowa State University
2005	BS , <i>Psychology & Applied Mathematical Sciences</i> , Texas A&M University

Professional Experience

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

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>.

2023

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 **Koops, 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, *Tools to create visually appealing courtroom studies*
<https://github.com/rachelesrogers/courtr>

2023

highlightr, *Analysis of edited text data*
<https://github.com/rachelesrogers/highlightr>

2021

ggpcp, *Generalized parallel coordinate plots*
<https://github.com/heike/ggpcp>

2020

vinference, *Analysis of visual inference experiments*
<https://github.com/heike/vinference>

2019

21

groovefinder, *Identification of grooves in scans of bullet land engraved areas*
<https://github.com/heike/groovefinder>

2019

cmcR, *Automated matching of 3d cartridge case scans using the congruent matching cells algorithm*
<https://github.com/CSAFE-ISU/cmcR>

2018

bulletxtrctr, *Automated matching of 3d bullet scans*
<https://github.com/heike/bulletxtrctr>

2018

x3ptools, *Reading, manipulating, and visualizing x3p files*
<https://github.com/heike/x3ptools>

2018

bulletsamplr, *Resampling of bullet signatures*
<https://github.com/srvanderplas/bulletsamplr>

2018

20

ShoeScrapeR, *Acquisition of shoe images and metadata from online retailers*
<https://github.com/srvanderplas/shoescraper>

2018

21

ImageAlignR, *Image registration algorithms for forensics*
<https://github.com/srvanderplas/imagealignr>

2013

15

animint, *Animated, interactive web graphics for R using ggplot2 and d3.js*
<https://github.com/tdhock/animint>

Grants

2025

2030

NSF: CAREER, *What Do You See? Perception, Decisions, and Statistical Graphics*, PI, Total: \$550,000

2021

2023

NIJ: R&D In Forensic Science, *Automatic Acquisition and Identification of Footwear Class Characteristics*, PI, Total: \$380,650

2021

2022

USDA-NIFA: Agriculture and Food Research Initiative, *Corn Residue Adaptive Grazing Strategies*, Collaborator, Total: \$300,000

2020

2025

NIST: Center for Statistics and Applications in Forensic Evidence, *Footwear Class Characteristics and Human Factors*, PI, Total: \$20,000,000, Sub: \$456,930

2021

2023

USDA-NRCS: Conservation Innovation Grant On-Farm Trials, *Improving the Economic and Ecological Sustainability of US Crop Production through On-Farm Precision Experimentation*, 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

2012

2025
2030

CAREER Award, *National Science Foundation*

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

2021	How to Make Good Charts  <i>Biological and Systems Engineering GSA</i> , University of Nebraska - Lincoln, Lincoln, NE
2020	Statistical Evaluation of Firearms and Toolmark Evidence  <i>Statistics</i> , University of Nebraska - Lincoln, Lincoln, NE
Teaching	
2026	STAT 349 , <i>Technical Skills for Statisticians</i> , University of Nebraska – Lincoln, In person synchronous
2025	STAT 151 , <i>Introduction to Statistical Computing</i> , University of Nebraska – Lincoln, Flipped synchronous. Evals: 3.90 (mean), 4 (median)
2025	STAT 349 , <i>Technical Skills for Statisticians</i> , University of Nebraska – Lincoln, In person synchronous. Evals: 4.00 (mean), 4 (median)
2025	STAT 351 , <i>Statistical Computing II - Data Management and Visualization</i> , University of Nebraska – Lincoln, In person synchronous
2025	STAT 850 , <i>Computing Tools for Statisticians</i> , University of Nebraska – Lincoln, Flipped synchronous
2024	STAT 151 , <i>Introduction to Statistical Computing</i> , University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.50 (mean), 5 (median)
2024	STAT 251 , <i>Data Wrangling</i> , University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.69 (mean), 5 (median)
2024	STAT 892 , <i>Writing in Statistics/TA Prep</i> , University of Nebraska – Lincoln, In person synchronous
2024	Stat 992 , <i>Special Topics in Data Visualization</i> , University of Nebraska – Lincoln, In person synchronous. Evals: 4.82 (mean), 5 (median)
2023	STAT 151 , <i>Introduction to Statistical Computing</i> , University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.55 (mean), 5 (median)
2023	STAT 251 , <i>Data Wrangling</i> , University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.30 (mean), 5 (median)
2023	STAT 892 , <i>Data Technologies for Statistical Analysis</i> , University of Nebraska – Lincoln, Co-taught with ISU Stat 585, Hybrid synchronous. Evals: 4.45 (mean), 4 (median)
2023	STAT 850 , <i>Computing Tools for Statisticians</i> , University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.31 (mean), 5 (median)
2023	STAT 892 , <i>Writing in Statistics/TA Prep</i> , University of Nebraska – Lincoln, In person synchronous. Evals: 4.13 (mean), 4 (median)
2022	STAT 151 , <i>Introduction to Statistical Computing</i> , University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.95 (mean), 5 (median)
2022	STAT 218 , <i>Introduction to Statistics</i> , University of Nebraska – Lincoln, Online asynchronous. Evals: 3.72 (mean), 4 (median)
2022	STAT 850 , <i>Computing Tools for Statisticians</i> , University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.33 (mean), 5 (median)

2022	STAT 892 , <i>Writing in Statistics/TA Prep</i> , University of Nebraska – Lincoln, In person synchronous. Evals: 4.29 (mean), 5 (median)
2022	STAT 982 , <i>Advanced Inference</i> , University of Nebraska – Lincoln, Co-taught with Bertrand Clarke. Evals: 4.34 (mean), 5 (median)
2021	STAT 218 , <i>Introduction to Statistics</i> , University of Nebraska – Lincoln, Online asynchronous.. Evals: 4.01 (mean), 4 (median)
2021	STAT 850 , <i>Computing Tools for Statisticians</i> , University of Nebraska – Lincoln, Hybrid, flipped, synchronous. Evals: 4.79 (mean), 5 (median)
2020	STAT 218 , <i>Introduction to Statistics</i> , University of Nebraska – Lincoln, Initially in person synchronous, then online asynchronous. Evals: 4.20 (mean), 4 (median)
2020	STAT 850 , <i>Computing Tools for Statisticians</i> , University of Nebraska – Lincoln, Hybrid, flipped, synchronous. Evals: 4.76 (mean), 5 (median)
2019	STAT 585 , <i>Data Technologies for Statistical Analysis</i> , Iowa State, Co-taught with Heike Hofmann. Evals: 4.92 (mean), 5 (median)

Mentoring

Ph.D.

2023	Tyler Wiederich , <i>Perception of Three Dimensional Graphics</i> , University of Nebraska - Lincoln
2023	Muxin Ha , <i>Automatic Recognition of Shoe Class Characteristics</i> , University of Nebraska - Lincoln
2021	Denise Bradford , <i>Dashboards for Exploratory Multivariate Data Analysis</i> , University of Nebraska - Lincoln
2024	Harriet Mason , Monash University
2026	Weihao (Patrick) Li , <i>Advances in Artificial Intelligence for Data Visualization: Developing Computer Vision Models to Automate Reading of Data Plots, with Application to Predictive Model Diagnostics</i> , co-advised with Dianne Cook and Emi Tanaka, Monash University
2024	Rachel Rogers , <i>Explainable Machine Learning for Forensics in Courtooms</i> , University of Nebraska - Lincoln
2020	Alison Kleffner , <i>Spatial Statistics and Visualization in Ecology and Agriculture</i> , co-advised with Yawen Guan, University of Nebraska - Lincoln
2023	Joseph Zemmels , <i>Analysis and Matching of Cartridge Cases</i> , co-advised with Heike Hofmann, Iowa State University
2020	Emily Robinson , <i>Perception of Log Scales</i> , co-advised with Reka Howard, University of Nebraska - Lincoln

MS

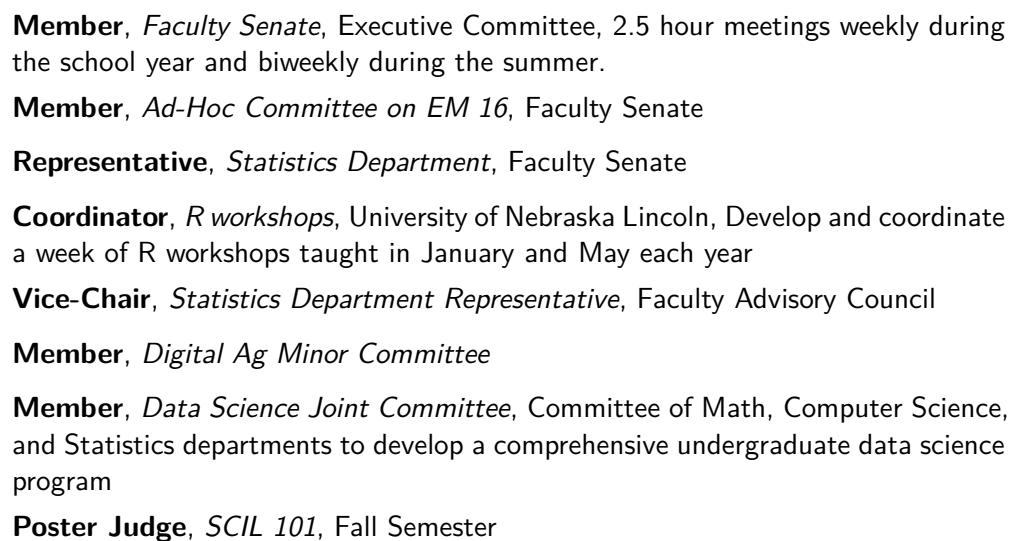
2024	Dinuwanthi Lianage , University of Nebraska
2024	Nicole Harms , University of Nebraska
2026	
2024	Maksuda Aktar Toma , <i>An Historical Analysis of Pie and Bar Chart Experiments</i> , University of Nebraska - Lincoln
2025	
2022	Tyler Wiederich , <i>Perception of Three Dimensional Graphics</i> , 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	
2020	Joseph Zemmels , <i>Analysis and Matching of Cartridge Cases</i> , co-advised with Heike Hofmann, Iowa State University
2019	
2020	Eryn Blagg , <i>Analysis of Wear Development in Three-Dimensional Shoe Scans</i> , co-advised with Heike Hofmann, Iowa State University
2018	
2019	Miranda Tilton , <i>Footwear Class Characteristics and Computer Vision</i> , Iowa State University
	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	
2019	Jason Seo , <i>R package for visualization of neural networks using the python library keras-vis</i> , Iowa State University
2018	
2019	Talen Fisher , <i>Database engineering and tools for working with x3p files</i> , Iowa State University
	Summer
2019	Molly McDermott and Andrew Maloney , <i>Bullet Scan Quality and Machine Learning</i> , Iowa State University
2019	
2019	Syema Ailia, Emmanuel Hernandez Morales, Tiger Ji , <i>Rapid quality control tools for confocal microscopy scans</i> , Iowa State University
2018	
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

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