Susan Vanderplas

Curriculum Vitae

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	Education
2009 15	Ph.D., Statistics, Iowa State University
2009	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	Assistant Professor, Statistics, 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, Office of the Vice President for Research, Iowa State University
	Publications
	Student advisees indicated with * .

Peer Reviewed Publications

2025

- 2. Fudolig, M. A., Robinson, E. A.*, and **Vanderplas**, **S.** (Apr. 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.
- 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.

- 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.
- 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.
- 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.
- 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

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

2022

2021

2020

- 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.
- 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.
- 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.
- 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.
- 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

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

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.

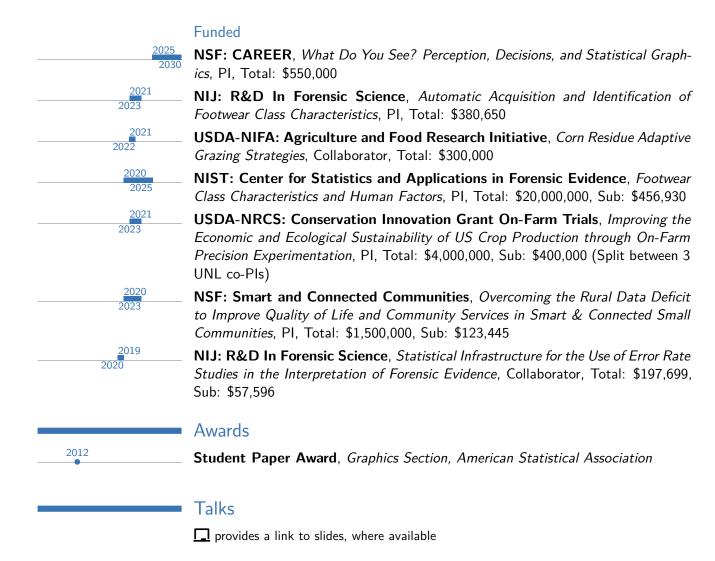
Other Publications

- 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.
- 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	<pre>courtr, Tools to create visually appealing courtroom studies, https://github.com/rachelesrogers/courtr</pre>
2023	highlightr , <i>Analysis of edited text data</i> , 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	groovefinder , <i>Identification of grooves in scans of bullet land engraved areas</i> , 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	${\bf x3ptools},$ Reading, manipulating, and visualizing ${\bf x3p}$ files, https://github.com/heike/ ${\bf x3ptools}$
2018	bulletsamplr,Resamplingofbulletsignatures,https://github.com/srvanderplas/bulletsamplr
2018	ShoeScrapeR , Acquisition of shoe images and metadata from online retailers, https://github.com/srvanderplas/shoescraper
2018	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



Invited 2025 Hidden Multiple Comparisons Increase Forensic Error Rates ____, ER 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** J. JSM, Section on Statistical Graphics, Portland, Or 2024 Escaping Flatland: Graphics, Dimensionality, and Human Perception \square , Human Computer Interaction International, Washington DC 2024 Cultivating Insights: Harnessing the Power of Data Visualization in Agricul**ture** , 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 guide**lines 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 ___, Data Science, Statistics, and Visualization, SAMSI, Online 2020 One of these things is not like the others: Visual Statistics and Testing in Statistical Graphics ___, Data Science Symposium, South Dakota State University, Brookings, SD 2020 Big Data, Big Experiments, and Big Problems , Plant and Animal Genome, San Diego, CA 2019 **Statistical Lineups for Bayesians** , *JSM*, Section on Statistical Graphics, Den-2018 Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics \square , SDSS, Reston, VA 2015 Animint: Interactive Web-Based Animations using Ggplot2's Grammar of **Graphics** , JSM, Section on Statistical Graphics, Seattle, WA 2014 The curse of three dimensions: Why your brain is lying to you \square , JSM, Section on Statistical Graphics, Boston, MA

Contributed

2025	Teaching Statistical Computing with R and Python, useR!, Durham, NC
2025	Hidden Multiple Comparisons Increase Forensic Error Rates, Joint Statistical Meetings, Forensics Interest Group, Nashville, TN
2022	Local Population Footwear Class Characteristics - An End-to-End Pipeline for Automatic Data Acquisition and Analysis , International Association for Identification Meeting, 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 , SDSU Data Science Symposium, South Dakota State University, Brookings, SD
2021	Welcome to Forensic Statistics, Data Mishaps Night, Online
2018	Framed Charts in the 1870 Statistical Atlas, JSM, 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 , JSM, Section on Statistical Graphics, Chicago, IL
2015	Visual Aptitude and Statistical Graphics , InfoVis, 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 , Great Plains R User Group, Sioux Center, IA
2013	Signs of the Sine Illusion – why we need to care , $\it JSM$, Section on Statistical Graphics, Montreal, ON, CA

Seminars 2024 **Creating Effective Graphics** , *Undergraduate Creative Activities and Research* Experience, Lincoln, NE 2024 **Creating Good Graphics** , UNL REU seminar, University of Nebraska - Lincoln, Lincoln, NE 2024 Graphical Perception in a Pandemic: Log Scales, Exponential Growth, and the Importance of User Testing, University of Illinois Chicago School of Public Health, Epidemiology and Biostatistics Seminar, Chicago, IL (Online) 2024 **Building a CV/Blog Automatically** , *Graphics Group*, University of Nebraska, 2024 **Building a CV with R and Google Sheets** , *Graphics Group*, University of Nebraska, Online 2024 **Using Git Submodules** , *Graphics Group*, University of Nebraska, Online 2023 Graphics and Cognition: How Do We Perceive Charts? ___, Graphics Group, 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 , Center for Brain, Biology, and Behavior, University of Nebraska, Lincoln, NΕ 2023 **Inconclusive Conclusions: Biases and Consequences** , *Biostatistics*, Johns Hopkins University, Baltimore, MD 2022 Reproducible Science: Statistics, Forensics, and the Law ___, Statistics, University of Nebraska - Lincoln, Lincoln, NE 2022 **How to make good charts** , *Complex Biosystems*, University of Nebraska -Lincoln, Lincoln, NE 2022 Pandemics, Graphics, and Perception of Log Scales ___, Math, University of Nebraska - Omaha, Omaha, NE 2022 **Automatic Acquisition of Footwear Class Characteristics** \square , *Center for Sta*tistical Applications in Forensic Evidence, Online 2021 Pandemics, Graphics, and Perception of Log Scales , NUMBATS, Monash University, Melbourne, Vic, AUS 2021 Exploring Rural Quality of Life Using Data Science and Public Data \square , QQPM, University of Nebraska - Lincoln, Lincoln, NE 2021 Inconclusive Conclusions: Biases and Consequences ___, Law and Psychology Brown Bag, University of Nebraska - Lincoln, Lincoln, NE 2021 **Visual Statistics: Communication and Graphical Testing** , *Animal Science*, University of Nebraska - Lincoln, Lincoln, NE 2021 **How to Make Good Charts** \square , *Biological and Systems Engineering GSA*, University of Nebraska - Lincoln, Lincoln, NE 2020 **Statistical Evaluation of Firearms and Toolmark Evidence** , *Statistics*, University of Nebraska - Lincoln, Lincoln, NE

	Teaching
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 , Statistical Computing II - Data Management and Visualization, University of Nebraska — Lincoln, In person synchronous
2025	STAT 850 , Computing Tools for Statisticians, 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 , Writing in Statistics/TA Prep, 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 , Computing Tools for Statisticians, University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.31 (mean), 5 (median)
2023	STAT 892 , Writing in Statistics/TA Prep, 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 , Computing Tools for Statisticians, University of Nebraska – Lincoln, Flipped synchronous. Evals: 4.33 (mean), 5 (median)
2022	STAT 892 , Writing in Statistics/TA Prep, University of Nebraska – Lincoln, In person synchronous. Evals: 4.29 (mean), 5 (median)
2022	STAT 982 , Advanced Inference, 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 , Computing Tools for Statisticians, University of Nebraska – Lincoln, Hybrid, flipped, synchronous. Evals: 4.79 (mean), 5 (median)
2020	STAT 218, Introduction to Statistics, University of Nebraska – Lincoln, Initially
	in person synchronous, then online asynchronous. Evals: 4.20 (mean), 4 (median)
2020	STAT 850 , Computing Tools for Statisticians, 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.
2024	Harriet Mason, Monash University
2023	Tyler Wiederich , <i>Perception of Three Dimensional Graphics</i> , University of Nebraska - Lincoln
2023	Muxin Ha , Automatic Recognition of Shoe Class Characteristics, University of Nebraska - Lincoln
2021	Denise Bradford , <i>Dashboards for Exploratory Multivariate Data Analysis</i> , University of Nebraska - Lincoln
2022 2024	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
2021	Rachel Rogers , <i>Explainable Machine Learning for Forensics in Courtooms</i> , University of Nebraska - Lincoln
2020 2023	Alison Kleffner, Spatial Statistics and Visualization in Ecology and Agriculture, co-advised with Yawen Guan, University of Nebraska - Lincoln
2020	Joseph Zemmels , Analysis and Matching of Cartridge Cases, 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

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	MS
2024	Maksuda Aktar Toma , An Historical Analysis of Pie and Bar Chart Experiments, University of Nebraska ASCII//TRANSLITASCII//TRANSLITASCII//TRANSLIT Lincoln
2024	Dinuwanthi Lianage, University of Nebraska
2024	Nicole Harms, University of Nebraska
2022	Tyler Wiederich , <i>Perception of Three Dimensional Graphics</i> , University of Nebraska - Lincoln
2022	Muxin Ha , Automatic Recognition of Shoe Class Characteristics, University of Nebraska - Lincoln
2021	Jayden Stack , Automatic Recognition of Shoe Class Characteristics, University of Nebraska - Lincoln
2020	Ved Piyush , <i>Machine Learning and Computer Vision</i> , University of Nebraska - Lincoln
2019	Joseph Zemmels , Analysis and Matching of Cartridge Cases, co-advised with Heike Hofmann, Iowa State University
2019	Eryn Blagg , Analysis of Wear Development in Three-Dimensional Shoe Scans, co-advised with Heike Hofmann, Iowa State University
2018	Miranda Tilton , Footwear Class Characteristics and Computer Vision, Iowa State University
	Undergraduate
2025	Mason Chandler , <i>The Quantitative Display of Insanity</i> , UNL Undergraduate Research Program, University of Nebraska
2024	Mason Chandler, An Historical Analysis of Pie and Bar Chart Experiments, UNL FYRE Program, University of Nebraska
2024	Olivia Walker, An Historical Analysis of Pie and Bar Chart Experiments, UNL FYRE Program, University of Nebraska
2021	Xinyu Liu, Machine Learning for Shoe Sole Images, UNL FYRE Program, Univer-

Jason Seo, R package for visualization of neural networks using the python library

Talen Fisher, Database engineering and tools for working with x3p files, lowa

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State University

keras-vis, Iowa State University

2019

2018 2019

	Summer
2019	Molly McDermott and Andrew Maloney , Bullet Scan Quality and Machine Learning, Iowa State University
2019	Syema Ailia, Emmanuelle Hernandez Morales, Tiger Ji, Rapid quality control tools for confocal microscopy scans, Iowa State University
2018	Ben Wonderlin, Jenny Kim , Footwear Class Characteristics and Computer Vision, Young Engineers and Scientists Program, Iowa State University
	Service
	Discipline
2024	Organizer , <i>Nebraska R User Group (NEBRUG)</i> , Co-chair, Group for R users across Nebraska to connect and learn new skills.
2023	Member, Advisory Committee on Forensic Science, ASA
2023	Chair, Section on Statistical Graphics, ASA
2022	Chair-Elect, Section on Statistical Graphics, ASA
2021	Associate Editor, Journal of Computational and Graphical Statistics
2020	Associate Editor, R Journal
2020 2020 2022	Program Chair, Section on Statistical Graphics, ASA
2020	Program Committee (Graphics) , Symposium on Data Science and Statistics (2020)
2019	Member, Gertrude Cox Scholarship Committee, ASA
2019	Organizing Committee , <i>Uncoast Unconference</i> , Des Moines, IA, Organized the first R Uncoast Unconference to bring R developers in flyover country together for a 3-day event. Over 50% of the participants at the conference were women or minorities, and participants included students, academics, and industry R programmers with a variety of experience levels in R programming.
2019	Council of Sections Representative, Section on Statistical Graphics, ASA

design principles

	Institution
<u>2024</u> 2027	Member , <i>Faculty Senate</i> , Executive Committee, 2.5 hour meetings weekly during the school year and biweekly during the summer.
2023	Member, Ad-Hoc Committee on EM 16, Faculty Senate
2022	Representative, Statistics Department, Faculty Senate
2021	Vice-Chair, Statistics Department Representative, Faculty Advisory Council
2021	Member, Digital Ag Minor Committee
2021	Member , <i>Data Science Joint Committee</i> , Committee of Math, Computer Science, and Statistics departments to develop a comprehensive undergraduate data science program
2020	Poster Judge, SCIL 101, Fall Semester
	Department
2021	Member, MS Comprehensive Exam Committee
2021	Coordinator , <i>R workshops</i> , University of Nebraska Lincoln, Develop and coordinate a week of R workshops taught in January and May each year
2020	Organizer, Seminar, Statistics Department
2019	Member , <i>Undergraduate Program Committee</i> , 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 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
	Professional Development
2023	Digital Accessibility Training, Online training - creating accessible digital content
2022	Faculty Fellow, Nebraska Governance and Technology Center
2021	Peer Review of Teaching Program , Create a course portfolio for Stat 850 in order to assess course design and analyze student engagement and learning
2020	New Faculty Development Program
2020	Summer Institute for Online Teaching, Online course structure and backwards