# Susan Vanderplas

## Curriculum Vitae

343D Hardin Hall North Wing 3310 Holdrege Street Lincoln, NE 68483-0961 402-472-7290 ☑ susan.vanderplas@unl.edu srvanderplas.github.io Srvanderplas

	Education
2009 15	Ph.D., Statistics, Iowa State University
2009	MS, Statistics, Iowa State University
2005	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	<b>Research Assistant Professor</b> , Center for Statistics and Applications in Forensic Evidence, 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 \*. Contribution percentages estimated from git contributions using git fame where possible. Not all projects have github repositories for which this is meaningful. Most of these papers are highly collaborative, and intellectual contributions are typically shared between all authors.

### Peer Reviewed Publications

27.\_\_2024 Rosenblum, Michael, Chin, Elizabeth T., Ogburn, Elizabeth L., Nishimura, Akihiko, Westreich, Daniel, Datta, Abhirup, Vanderplas, Susan, Cuellar, Maria, and Thompson, William C. (Nov. 5, 2024a). "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. DOI: 10.1073/pnas.2315431121. 26. 2024

Vanderplas, Susan, Carriquiry, Alicia, and Hofmann, Heike (June 18, 2024). "Hidden multiple comparisons increase forensic error rates". In: Proceedings of the National Academy of Sciences 121.25. DOI: 10.1073/pnas.2401326121.

Contribution: Programming and analysis (80%), Writing (80%).

Wiederich, Tyler and Vanderplas, Susan (Apr. 24, 2024). "Evaluating Perceptual Judgements on 3D Printed Bar Charts". In: *Journal of Data Science* 22.2, pp. 176–190. ISSN: 1680743X. DOI: 10.6339/24-JDS1131.

Contribution: Programming and analysis (40%), Writing (60%), Advising (100%).

Li, Weihao\*, Cook, Dianne, Tanaka, Emi, and **VanderPlas**, **Susan** (May 22, 2024). "A Plot Is Worth a Thousand Tests: Assessing Residual Diagnostics with the Lineup Protocol". In: *Journal of Computational and Graphical Statistics*. ISSN: 1061-8600. DOI: 10.1080/10618600.2024.2344612.

Contribution: Advising 10%.

Ju, Wangqian\*, **VanderPlas**, **Susan R.**, and Hofmann, Heike (Jan. 24, 2024). "One Model That Fits Them All: Psychometrics With Generalized Linear Mixed Effects Models". In: *Electronic Imaging* 36, pp. 1–8. DOI: 10.2352/EI.2024.36.1.VDA-358.

Contribution: Advising 10%.

Rogers, Rachel\* and **VanderPlas**, **Susan** (May 2, 2024). "Demonstrative Evidence and the Use of Algorithms in Jury Trials". In: *Journal of Data Science* 22.2, pp. 314–332. DOI: 10.6339/24-JDS1130.

Contribution: Writing 20%, Advising 100%.

Vanderplas, Susan, Blankenship, Erin, and Wiederich, Tyler\* (July 1, 2024). "Escaping Flatland: Graphics, Dimensionality, and Human Perception". In: *Human Interface and the Management of Information*. Ed. by Hirohiko Mori and Yumi Asahi. Springer Nature Switzerland July 1, 2024, pp. 140–156. ISBN: 978-3-031-60114-9. DOI: 10.1007/978-3-031-60114-9\_11.

Contribution: Writing 100%, Analysis 70%.

Rosenblum, Michael, Chin, Elizabeth T, Ogburn, Elizabeth L, Nishimura, Akihiko, Westreich, Daniel, Datta, Abhirup, **Vanderplas**, **Susan**, Cuellar, Maria, and Thompson, William C (Jan. 9, 2024b). "Misuse of statistical method results in highly biased interpretation of forensic evidence in Guyll et al. (2023)". In: *Law, Probability and Risk* 23.1. DOI: 10.1093/lpr/mgad010. URL: https://doi.org/10.1093/lpr/mgad010.

Contribution: Writing (10%). This paper is a collaboration between all authors resulting from discussions about the Guyll et al. paper.

Robinson, Emily A.\*, Howard, Reka, and **VanderPlas**, **Susan** (Oct. 2, 2023). "Eye Fitting Straight Lines in the Modern Era". In: *Journal of Computational and Graphical Statistics* 32.4, pp. 1537–1544. ISSN: 1061-8600. DOI: 10.1080/10618600.2022.2140668.

**Contribution:** Programming and analysis (10%), Writing (10%), Advising (60%).

VanderPlas, Susan, Ge, Yawei\*, Unwin, Antony, and Hofmann, Heike (Mar. 2023). "Penguins Go Parallel: a grammar of graphics framework for generalized parallel coordinate plots". In: Journal of Computational and Graphical Statistics. DOI: 10.1080/10618600. 2023.2195462.

Contribution: Writing (50%).

19. 2023

Zemmels, Joseph\*, **Vanderplas**, **Susan**, and Hofmann, Heike (Feb. 9, 2023). "A Study in Reproducibility: The Congruent Matching Cells Algorithm and cmcR package". In: *R Journal* 14 (4), pp. 79–102. DOI: 10.32614/RJ-2023-014.

**Contribution:** Programming and analysis (10%), Writing (20%), Advising (40%).

2023 16. Robinson, Emily\*, Howard, Reka, and VanderPlas, Susan (Jan. 2023). "You Draw It: Implementation of visually fitted trends with r2d3". In: Journal of Data Science. ISSN: 1680-743X. DOI: 10.6339/22-JDS1083. Contribution: Writing (10%), Advising (80%). 15. 2022 Bradford, Denise\* and VanderPlas, Susan (Dec. 2022). "Exploring Rural Shrink Smart Through Guided Discovery Dashboards". In: Journal of Data Science, pp. 1–12. ISSN: 1680-743X. DOI: 10.6339/22-JDS1080. Contribution: Programming and analysis (10%), Writing (10%), Advising (100%). 2022 14. Wilhelm, Adalbert and VanderPlas, Susan (Nov. 2022). "Visual Narratives of the Covid-19 pandemic". In: Journal of Data Science, Statistics, and Visualisation 2.7, pp. 84–113. DOI: 10.52933/jdssv.v2i7.64. Contribution: Writing (60%). 13. 2021 Hofmann, Heike, Carriquiry, Alicia, and Vanderplas, Susan (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. Contribution: Writing (50%). 2021 12. Vanderplas, Susan, Röttger, Christian, Cook, Dianne, and Hofmann, Heike (Dec. 1, 2021). "Statistical significance calculations for scenarios in visual inference". In: Stat 10.1, e337. DOI: https://doi.org/10.1002/sta4.337. Contribution: Programming and analysis (30%), Writing (65%). 2020 Vanderplas, Susan, Carriquiry, Alicia, Hofmann, Heike, Hamby, James, and Tai, Xiao Hui 11. (2020). "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 2020. DOI: https://doi.org/10.1201/9780367527709. Contribution: Writing (50%). 2020 10. Vanderplas, Susan, Nally, Melissa, Klep, Tylor, Cadevall, Cristina, and Hofmann, Heike (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. **Contribution:** Programming and analysis (20%), Writing (55%). 2020 9. Vanderplas, Susan, Cook, Dianne, and Hofmann, Heike (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. Contribution: Writing (85%). 2019 8. Rutter, Lindsay, Vanderplas, Susan, Cook, Dianne, and Graham, Michelle (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. 2019 Vanderplas, Susan, Goluch, Ryan C, and Hofmann, Heike (Apr. 1, 2019). "Framed! Re-7. producing 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. Contribution: Programming and analysis (60%), writing (50%). 2018 6. Sievert, Carson, Vanderplas, Susan, Cai, Jun, Ferris, Kevin, Khan, Faizan Uddin Fahad,

and Hocking, Toby Dylan (Nov. 14, 2018). "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.

5. 2017	Vanderplas, Susan and Hofmann, Heike (Apr. 24, 2017). "Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics". In: <i>Journal of Computational and Graphical Statistics</i> 26.2, pp. 231–242. DOI: https://doi.org/10.1080/10618600.2016.1209116.
4. 2016	Contribution: Programming and analysis (90%), writing (50%).  VanderPlas, Susan and Hofmann, Heike (Dec. 31, 2016). "Spatial Reasoning and Data Displays". In: <i>IEEE Transactions on Visualization and Computer Graphics</i> 22.1, pp. 459–468.  DOI: https://doi.org/10.1109/TVCG.2015.2469125.
3. 2015	Contribution: Programming and analysis (90%), writing (75%).  Vanderplas, Susan and Hofmann, Heike (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. 2010	Contribution: Programming and analysis (50%), writing (60%).  Towfic, Fadi, Vanderplas, Susan, Oliver, Casey A, Couture, Oliver, Tuggle, Christopher K, Greenlee, M Heather West, and Honavar, Vasant (2010). "Detection of gene orthology from gene co-expression and protein interaction networks". In: BMC bioinformatics 11.Suppl
1. 2009	3, S7. DOI: https://doi.org/10.1186/1471-2105-11-S3-S7.  Hull, Rachel, Bortfeld, Heather, and <b>Koons</b> , <b>Susan</b> (2009). "Near-infrared spectroscopy and cortical responses to speech production". In: <i>The open neuroimaging journal</i> 3, p. 26. DOI: https://doi.org/10.2174/1874440000903010026.
4. 2021	Other Publications  Submitted as an invited response to Hullman & Gelman's "Designing for Interactive Exploratory Data Analysis Requires Theories of Graphical Inference".  VanderPlas, Susan (July 30, 2021). "Designing Graphics Requires Useful Experimental Test-
3. 2019	ing Frameworks and Graphics Derived From Empirical Results". In: <i>Harvard Data Science Review</i> 3.3. DOI: https://doi.org/10.1162/99608f92.7d099fd0.  Carriquiry, Alicia, Hofmann, Heike, Tai, Xiao Hui, and <b>Vanderplas</b> , <b>Susan</b> (Apr. 1, 2019). "Machine learning in forensic applications". In: <i>Significance</i> 16.2, pp. 29–35. DOI: https://doi.org/10.1111/j.1740-9713.2019.01252.x.
2. 2017	Contribution: Writing (50%).  Submitted as an invited response to Donoho's "50 years of Data Science".  Hofmann, Heike and Vanderplas, Susan (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. 2013	Contribution: Writing (75%).  Budrus, Sarah, Vanderplas, Susan, and Cook, Dianne (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
2	Dates show initial involvement; only packages which are no longer maintained have end dates.
	$\mathbf{courtr}$ , Tools to create visually appealing courtroom studies, https://github.com/rachelesrogers/courtr
20	highlightr, Analysis of edited text data, https://github.com/rachelesrogers/highlightr
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2021	ggpcp, Generalized parallel coordinate plots, https://github.com/heike/ggpcp
2020	vinference, Analysis of visual inference experiments, https://github.com/heike/vinference
2019	<b>groovefinder</b> , <i>Identification of grooves in scans of bullet land engraved areas</i> , https://github.com/heike/groovefinder
2019	<b>cmcR</b> , Automated matching of 3d cartridge case scans using the congruent matching cells algorithm, https://github.com/CSAFE-ISU/cmcR
2018	<b>bulletxtrctr</b> , 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/x3ptools
2018	bulletsamplr, Resampling of bullet signatures, https://github.com/srvanderplas/bulletsamplr
2018	<b>ShoeScrapeR</b> , Acquisition of shoe images and metadata from online retailers, https://github.com/srvanderplas/shoescraper
2018	ImageAlignR,Imageregistrationalgorithmsforforensics,https://github.com/srvanderplas/imagealignr
2013 15	$\begin{array}{llllllllllllllllllllllllllllllllllll$
	Grants
	Under Review
2024	<b>NSF: CAREER</b> , What Do You See? Perception, Decisions, and Statistical Graphics, PI, Total: \$666,485
	Funded
2021	<b>NIJ: R&amp;D In Forensic Science</b> , Automatic Acquisition and Identification of Footwear Class Characteristics, PI, Total: \$380,650
2021	<b>USDA-NIFA: Agriculture and Food Research Initiative</b> , <i>Corn Residue Adaptive Grazing Strategies</i> , Collaborator, Total: \$300,000
2020	NIST: Center for Statistics and Applications in Forensic Evidence, Footwear Class Characteristics and Human Factors, PI, Total: \$20,000,000, Sub: \$456,930
2021	<b>USDA-NRCS: Conservation Innovation Grant On-Farm Trials</b> , <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	<b>NSF: Smart and Connected Communities</b> , 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	<b>NIJ: R&amp;D In Forensic Science</b> , Statistical Infrastructure for the Use of Error Rate Studies in the Interpretation of Forensic Evidence, Collaborator, Total: \$197,699, Sub: \$57,596

# Awards

2012

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

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	Talks
	provides a link to slides, where available
	Invited
2024	<b>Web Scraping Olympics:</b> 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	<b>Escaping Flatland: Graphics, Dimensionality, and Human Perception</b> , <i>Human Computer Interaction International</i> , 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	<b>Testing Statistical Graphics</b> $\square$ , <i>JSM</i> , 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 $\square$ , R Ladies DC, Washington, DC
2020	<b>Perception and Visual Communication in a Global Pandemic</b> , <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 , Data Science Symposium, South Dakota State University, Brookings, SD
2020	<b>Big Data, Big Experiments, and Big Problems</b> , <i>Plant and Animal Genome</i> , San Diego, CA
2019	<b>Statistical Lineups for Bayesians</b> , <i>JSM</i> , Section on Statistical Graphics, Denver, CO
2018	Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics, SDSS, Reston, VA
2015	Animint: Interactive Web-Based Animations using Ggplot2's Grammar of Graphics, JSM, Section on Statistical Graphics, Seattle, WA
2014	<b>The curse of three dimensions: Why your brain is lying to you</b> , <i>JSM</i> , Section on Statistical Graphics, Boston, MA

#### Contributed 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, International Association for Identification Meeting, Omaha, NE 2022 How do you define a circle? Perception and Computer Vision Diagnostics $\square$ , 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, JSM, Section on Statistical Graphics, Baltimore, MD 2016 Clusters Beat Trend!? Testing Feature Hierarchy in Statistical Graphics $\square$ , 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** $\square$ , *JSM*, 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, 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, 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, Online 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 $\square$ , Center for Brain, Biology, and Behavior, University of Nebraska, Lincoln, NE

**Inconclusive Conclusions: Biases and Consequences** , *Biostatistics*, Johns Hopkins

2023

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 Statistical 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  $\square$ , Law and Psychology Brown Bag, University of Nebraska - Lincoln, Lincoln, NE 2021 **Visual Statistics: Communication and Graphical Testing**  $\square$ , *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** STAT 151, Introduction to Statistical Computing, University of Nebraska - Lincoln, Flipped synchronous 2024 STAT 251, Data Wrangling, University of Nebraska - Lincoln, Flipped synchronous 2024 **STAT 892**, Writing in Statistics/TA Prep, University of Nebraska - Lincoln, In person synchronous 2024 Stat 992, Special Topics in Data Visualization, University of Nebraska Lincoln, In person synchronous 2023 STAT 151, Introduction to Statistical Computing, University of Nebraska - Lincoln, Flipped synchronous. Evals: 4.55 (mean), 5 (median) 2023 STAT 251, Data Wrangling, University of Nebraska - Lincoln, Flipped synchronous. Evals: 4.30 (mean), 5 (median) 2023 STAT 892, Data Technologies for Statistical Analysis, University of Nebraska - Lincoln, Co-taught with ISU Stat 585, Hybrid synchronous 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, 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 218, Introduction to 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 350, Computing Tools for Statisticians, University of Nebraska - Lincoln, Hybrid, flipped, synchronous. Evals: 4.76 (mean), 5 (median)  STAT 550, Computing Tools for Statisticians, University of Nebraska - Lincoln, Hybrid, flipped, synchronous. Evals: 4.76 (mean), 5 (median)  STAT 585, Data Technologies for Statisticial Analysis, lowa State, Co-taught with Heike Hofmann. Evals: 4.92 (mean), 5 (median)  Mentoring  Ph.D.  2023  Mentoring  Ph.D.  2034  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 of Nebraska - Lincoln  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, lowa State University  Emily Robinson, Perception of Log Scales, co-advised with Reka Howard, University of N		
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 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.  Wentoring  Ph.D.  Ph.D.  Denise Bradford, Dashboards for Exploratory Multivariate Data Analysis, University of Nebraska - Lincoln  Denise Bradford, Dashboards for Exploratory Multivariate Data Analysis, University of Nebraska - Lincoln  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 of Nebraska - Lincoln  Alison Kleffner, Spatial Statistics and Visualization in Ecology and Agriculture, co-advised with Yawen Guan, University of Nebraska - Lincoln  Alison Kleffner, Spatial Statistics and Visualization in Ecology and Agriculture, co-advised with Yawen Guan, University of Nebraska - Lincoln  Alison Kleffner, Spatial Statistics and Visualization in Recology and Agricu	2022	
chronous. 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 850, Computing Tools for Statisticians, University of Nebraska - Lincoln, Hybrid, flipped, synchronous. Evals: 4.76 (mean), 5 (median)  STAT 855, Data Technologies for Statistical Analysis, Iowa State, Co-taught with Heike Hofmann. Evals: 4.92 (mean), 5 (median)  Mentoring  Ph.D.  2023  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  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 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, lowa State University  Emily Robinson, Perception of Log Scales, co-advised with Reka Howard, University of	2022	. •
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 Statisticians, 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 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.  2023 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  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 Courtooms, 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	2022	- , , , , , , , , , , , , , , , , , , ,
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Emily Robinson, Perception of Log Scales, co-advised with Reka Howard, University of	2020	
	2020	Emily Robinson, Perception of Log Scales, co-advised with Reka Howard, University of
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Carson Trego, A Statistical Approach to Learning Computer Vision, University of Nebraska	2023	

- Lincoln

2023	<b>Maksuda Aktar Toma</b> , <i>An Historical Analysis of Pie and Bar Chart Experiments</i> , University of Nebraska Lincoln
2023	Dinuwanthi Lianage, University of Nebraska
2022	<b>Tyler Wiederich</b> , Perception of Three Dimensional Graphics, University of Nebraska - Lincoln
2022	<b>Muxin Ha</b> , Automatic Recognition of Shoe Class Characteristics, University of Nebraska - Lincoln
2021	<b>Jayden Stack</b> , Automatic Recognition of Shoe Class Characteristics, University of Nebraska - Lincoln
2020	Ved Piyush, Machine Learning and Computer Vision, University of Nebraska - Lincoln
2019	<b>Joseph Zemmels</b> , <i>Analysis and Matching of Cartridge Cases</i> , co-advised with Heike Hofmann, Iowa State University
2019	<b>Eryn Blagg</b> , 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
2021	<b>Xinyu Liu</b> , <i>Machine Learning for Shoe Sole Images</i> , UNL FYRE Program, University of Nebraska - Lincoln
2019	<b>Jason Seo</b> , <i>R package for visualization of neural networks using the python library keras-vis</i> , lowa State University
2018 2019	<b>Talen Fisher</b> , $Database$ engineering and tools for working with $x3p$ files, lowa State University
	Summer
2019	<b>Molly McDermott and Andrew Maloney</b> , <i>Bullet Scan Quality and Machine Learning</i> , Iowa State University
2019	Syema Ailia, Emmanuelle Hernandez Morales, Tiger Ji, Rapid quality control tools for confocal microscopy scans, Iowa State University
2018	<b>Ben Wonderlin, Jenny Kim</b> , Footwear Class Characteristics and Computer Vision, Young Engineers and Scientists Program, Iowa State University
	Service
	Discipline
2024	<b>Organizer</b> , <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	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	<b>Organizing Committee</b> , <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.
2017	Council of Sections Representative, Section on Statistical Graphics, ASA
	Institution
2024	Member, Faculty Senate, Executive Committee
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, Data Science Joint Committee, Committee of Math, Computer Science, and Statis-
2020	tics departments to develop a comprehensive undergraduate data science program  Poster Judgo SCII 101 Fall Semester
•	Poster Judge, SCIL 101, Fall Semester
<u>2</u> 021	Department  Manchar MS Commission From Commistors
2022	Member, MS Comprehensive Exam Committee
2021	<b>Coordinator</b> , <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	<b>Member</b> , <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 Book, IEEE InfoVis, Journal of Computational and Graphical Statistics, R Journal, Forensic Science International, 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
2020	assess course design and analyze student engagement and learning  New Faculty Development Program
•	recw ractity Development riogram

**Summer Institute for Online Teaching**, *Online course structure and backwards design principles*