

CONTACT INFORMATION	University of Houston Department of Information Science Technology 4730 MLK Blvd. #312 Houston, TX 77204-4020 USA	Work: +1-713-743-4581 E-mail: plindner@uh.edu WWW: peggylind.github.io
RESEARCH INTERESTS	Data Science, Computational Social Science: Data Curation & Harmonization; Science of Science; Digital Humanities; Online communication: Temporal and geographical patterns of discourse, computer-assisted multilingual analysis	
CURRENT ACADEMIC APPOINTMENT	Assistant Professor, University of Houston Department of Information Science Technology Affiliations: The Honors College, University of Houston Center for Public History, University of Houston	September 2019 to present
PREVIOUS ACADEMIC APPOINTMENTS	Associate Director for Educational Programs, Hewlett Packard Enterprise Data Science Institute, University of Houston 2018–2019 Research Assistant Professor, Department of Mechanical Engineering & Honors College, University of Houston, Center for Advanced Computing & Data Science (CACDS) 2013–2019 Research Assistant Professor, Department of Computer Science, University of Houston 2009–2012 Visiting Scientist, Department of Surgery, The Methodist Hospital Research Institute 2012 Lab Manager & Post-Doctoral Researcher, Computational Physiology Lab, University of Houston 2007–2012 Research Associate, High Performance Computing Center (HLRS), Stuttgart, Germany 2001–2007	
EDUCATION	University of Stuttgart, Stuttgart, Germany Ph.D., Mechanical Engineering , July 2007 <ul style="list-style-type: none"> Thesis Topic: <i>Management of applications from science and engineering in heterogeneous Grid environments.</i> Adviser: Professor Michael M. Resch Area of Study: High Performance Computing Freiberg University of Mining and Technology, Freiberg, Germany M.S., Geotechnology and Mining , February 2000 <ul style="list-style-type: none"> Thesis Topic: <i>The influence of stress in old concrete on fracture and crack width in reinforced concrete</i> Area of Study: Special Civil Engineering B.S., Geotechnology and Mining , September 1996	

SUBMITTED JOURNAL PUBLICATIONS	Y. Ahmed, C. Cheek, P. Lindner, and E. Grigorenko. Data-driven approaches to learning disability identification: Predicting risk using machine learning of natural language processing from student writing analysis. <i>Journal of Educational Psychology</i> , 2024. submitted
	D. V. Egdom, M. Piszczek, C. Spitzmueller, P. Lindner, and A. Clauset. Supporting academic parents: The effects of dependent care policies on research productivity trends. <i>Journal of Occupational and Organizational Psychology (JOP)</i> , 2024. submitted
	T. Masters-Waage, C. Spitzmueller, A. Gutierrez, E. Edema-Sillo, J. M. J., and P. Lindner. Joint evaluation reduces racial disparities in the promotion and tenure process: Evidence from a natural experiment. <i>Processings of National Academies of Science (PNAS)</i> , 2024. submitted
SUBMITTED CONFERENCE PUBLICATIONS	R. Hu, A. Lendasse, A. Schlager, and P. Lindner. Supervised imputation of missing data. In <i>32th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN)</i> , 2024. submitted
	J. Edwards, R. Hu, A. Lendasse, A. Schlager, and P. Lindner. A two-stage approach for implicit bias detection in generative language models. In <i>32th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN)</i> , 2024. submitted
REFEREED JOURNAL PUBLICATIONS	T. Masters-Waage, E. Edema-Sillo, A. Gutierrez, E. Henderson, M. Penn-Marshall, J. Madera, P. Lindner, C. Werner, T. Rizzuto, and C. Spitzmueller. Underrepresented minority faculty face double standard in promotion and tenure decisions. <i>Nature Human Behavior</i> , 2024. accepted for publication
	L. Camaj, L. Hellmueller, S. V. Vera, and P. Lindner. The democratic value of strategic game reporting and uncivil talk: A computational analysis of facebook conversations during u.s. primary debates. <i>Journalism & Mass Communication Quarterly</i> , 0(0):10776990231226403, 0. doi: 10.1177/10776990231226403
	C. L. Cheek, P. Lindner, and E. L. Grigorenko. Statistical and Machine Learning Analysis in Brain-Imaging Genetics: A Review of Methods. <i>Behavior Genetics</i> , Feb. 2024. ISSN 1573-3297. doi: 10.1007/s10519-024-10177-y . URL https://doi.org/10.1007/s10519-024-10177-y
	D. Madrid-Morales, J. R. Rodríguez-Amat, and P. Lindner. A Computational Mapping of Online News Deserts on African News Websites. <i>Media and Communication</i> , 11(3), Aug. 2023. ISSN 2183-2439. doi: 10.17645/mac.v11i3.6857 . URL https://www.cogitatiopress.com/mediaandcommunication/article/view/6857
	C. Samaniego, P. Lindner, M. A. Kazmi, B. A. Dirr, D. T. Kong, E. Jeff-Eke, and C. Spitzmueller. Higher research productivity = more pay? Gender pay-for-productivity inequity across disciplines. <i>Scientometrics</i> , 128(2):1395–1407, Feb. 2023. ISSN 0138-9130, 1588-2861. doi: 10.1007/s11192-022-04513-4 . URL https://link.springer.com/10.1007/s11192-022-04513-4
	Z. Liu, K. Hoff, E. Baranski, G. Snyder, R. Flin, P. Lindner, and C. Spitzmueller. Mindfulness and workplace safety: An integrative review. <i>Journal of Organizational Behavior</i> , 44(8): 1263–1282, Oct. 2023. ISSN 0894-3796, 1099-1379. doi: 10.1002/job.2705 . URL https://onlinelibrary.wiley.com/doi/10.1002/job.2705
	J. T.-C. Wu, C. Jones, P. Lindner, E. Rodwell, N. Beck Young, and L. Zarnow. Sharing Stories from 1977: Creating a Feminist Digital Humanities Project. <i>Women and Social Movements in the United States, 1600-2000</i> , 26(2), 2022
	L. Hellmueller, V. Hase, and P. Lindner. Terrorist Organizations in the News: A Computational Approach to Measure Media Attention Toward Terrorism. <i>Mass Communication and Society</i> , pages 1–24, June 2021b. ISSN 1520-5436, 1532-7825. doi: 10.1080/15205436.2021.1936068 . URL https://www.tandfonline.com/doi/full/10.1080/15205436.2021.1936068

REFEREED
CONFERENCE
AND WORKSHOP
PUBLICATIONS

- G. Toti, R. Vilalta, P. Lindner, B. Lefer, C. Macias, and D. Price. Analysis of correlation between pediatric asthma exacerbation and exposure to pollutant mixtures with association rule mining. *Artificial intelligence in medicine*, 74:44–52, 2016a. Publisher: Elsevier
- I. Garza, H. Montakhabi, P. Lindner, P. Tsiamyrtzis, J. Swanson, L. MacBride, T. Krouskop, and I. Pavlidis. The Face of Migraine; Thermal Imaging Revisited (P06.154). *Neurology*, 80(7 Supplement):P06.154–P06.154, 2013. ISSN 0028-3878. URL https://n.neurology.org/content/80/7_Supplement/P06.154
- I. Pavlidis, P. Tsiamyrtzis, D. Shastri, A. Wesley, Y. Zhou, P. Lindner, P. Buddharaju, R. Joseph, A. Mandapati, B. Dunkin, and others. Fast by nature-how stress patterns define human experience and performance in dexterous tasks. *Scientific Reports*, 2:305, 2012. Publisher: Nature Publishing Group
- Y. Zhou, P. Tsiamyrtzis, P. Lindner, I. Timofeyev, and I. Pavlidis. Spatiotemporal smoothing as a basis for facial tissue tracking in thermal imaging. *IEEE Transactions on Biomedical Engineering*, 60(5):1280–1289, 2012. Publisher: IEEE
- P. Lindner, E. Gabriel, and M. M. Resch. GCM: a grid configuration manager for heterogeneous grid environments. *International Journal of Grid and Utility Computing*, 1(1): 4–12, 2005. Publisher: Inderscience Publishers
- O. Baghban Karimi, G. Toti, M. Gutica, R. Robinson, L. Zhang, J. H. Paterson, P. Lindner, and M. O’Dea. Exploring Computing Science Programs’ Admission Procedures with a Diversity and Inclusion Lens. In *ITiCSE 2023: Proceedings of the 2023 Conference on Innovation and Technology in Computer Science Education V. 2*, June 2023
- K. Neumann and P. Lindner. Digital Numismatics and Data Visualization for Ancient Antioch. In *XiV International Numismatic Congress*, University of Warsaw, Sept. 2022
- P. Lindner. Gentle approaches to support large scale manual data curation. In *CHI 2022 Workshop Investigating Data Work Across Domains: New Perspectives on the Work of Creating Data*, Apr. 2022
- C. Bronk, A. Lendasse, P. Lindner, D. Wallach, and B. Hammer. Machine Learning for Measuring and Analyzing Online Social Communications. In *ESANN 2021 proceedings*, Online Event, Oct. 2021. ISBN 978-2-87587-082-7
- M. Graham, M. Mehra, S. Shrestha, P. Lindner, E. Velasco, S. Yoon, J. Flynn, R. Sheesley, and S. Usenko. Optimization of an Algorithm Using Aerosol Optical Properties to Investigate the Influence of Biomass Burning on an Urban Atmosphere (BC)2 2021 Field Campaign. In *AGU Fall Meeting Abstracts*, volume 2021, pages A35J–1776, Dec. 2021
- P. Lindner. Measuring Research Productivity at Scale. In *Proceedings of ELM 2021*. Springer Nature, Dec. 2021
- K. Neumann and P. Lindner. Digital Numismatics: A Wealth of Evidence for Ancient Syria. In *Archaeological Institute of America Annual Meeting*, San Francisco, Jan. 2021
- L. Hellmueller, L. Camaj, and P. Lindner. Mediating the 2020 U.S. Political Debates on Social Media: The impact of message function and visual framing on political deliberation on news outlets’ Facebook pages. In *71st Annual ICA Conference "Engaging the Essential Work of Care: Communication, Connectedness, and Social Justice"*, virtual, May 2021a
- M. Kazmi, X. Wen, C. Samaniego, A. Tsao, P. Lindner, and C. Spitzmueller. How Leadership Can Reduce the Gender-Safety Priority Relationship. In *14th European Academy of Occupational Health Psychology (EAOHP) Conference*, online, Sept. 2020. URL <https://app.oxfordabstracts.com/events/987/program-app/submission/148625>
- M. Bagheri, H. Zhao, M. Sun, L. Huang, S. Madasu, P. Lindner, and G. Toti. Data Conditioning and Forecasting Methodology using Machine Learning on Production Data for a Well Pad. In *OTC-30854-MS*, page 17, OTC, May 2020. Offshore Technology Conference. ISBN 978-1-61399-707-9. doi:[10.4043/30854-MS](https://doi.org/10.4043/30854-MS). URL <https://doi.org/10.4043/30854-MS>. Journal Abbreviation: OTC-30854-MS

M. Saxena, S. Jha, S. Khan, J. Rodgers, P. Lindner, and E. Gabriel. Comparison of MPI and Spark for Data Science Applications. In *21st IEEE International Workshop on Parallel and Distributed Scientific and Engineering Computing (PDSEC 2020), held in conjunction with the 34th IEEE International Parallel and Distributed Processing Symposium (IPDPS 2020)*, New Orleans, LA, USA, 2020

L. Hellmueller, V. Hase, and P. Lindner. Terrorism in the News: Explaining Mediated Visibility of Organized Violence. In *69th Annual International Communications Association (ICA) Conference*, 2019. event-place: Washington, D.C

A. Amritkar, J. Ebalunode, M. Huarte-Espinosa, P. Lindner, P. G. Rondón, and A. Prosperetti. Vistas in Advanced Computing. In *EduHPC-17 in conjunction with SC 2017*, Denver, CO, Nov. 2017

G. Toti, R. Vilalta, P. Lindner, and D. Price. Effect of the Definition of Non-Exposed Population in Risk Pattern Mining. In *5th Workshop on Data Mining for Medicine and Healthcare held in conjunction with 16th SIAM International Conference on Data Mining (SDM 2016)*, page 19, May 2016b

H. Ayyalasomayajula, E. Gabriel, P. Lindner, and D. Price. Air quality simulations using big data programming models. In *2016 IEEE Second International Conference on Big Data Computing Service and Applications (BigDataService)*, pages 182–184. IEEE, 2016

I. Uyanik, P. Lindner, P. Tsiamyrtzis, D. Shah, N. V. Tsekos, and I. T. Pavlidis. Applying a level set method for resolving physiologic motions in free-breathing and non-gated cardiac mri. In *International Conference on Functional Imaging and Modeling of the Heart*, pages 466–473. Springer, 2013

A. Wesley, P. Lindner, and I. Pavlidis. Eustressed or distressed? Combining physiology with observation in user studies. In *CHI’12 Extended Abstracts on Human Factors in Computing Systems*, pages 327–330, 2012

P. Lindner, E. Gabriel, and M. M. Resch. Performance prediction based resource selection in grid environments. In *International Conference on High Performance Computing and Communications*, pages 228–238. Springer, 2007

J. Almond and P. Lindner. An Integrated Global Service for File Transfer and Management in a Network (FTM). In *PDPTA*, pages 1063–1067, 2004

F. BöS, N. Currle-Linde, P. Lindner, R. D. Schmid, and J. Pleiss. High-throughput molecular dynamics simulations: Long and short range effects of mutations on substrate specificity. In *German Conference on Bioinformatics 2004, GCB 2004*. Gesellschaft für Informatik eV, 2004

N. Currle-Linde, F. Boes, P. Lindner, J. Pleiss, and M. M. Resch. A management system for complex parameter studies and experiments in grid computing. In *Parallel and Distributed Computing and Systems: Proceedings of the 16 th IASTED International Conference*, 2004

E. Gabriel, R. Keller, P. Lindner, M. S. Müller, and M. M. Resch. Software Development in the Grid: The DAMIEN tool-set. In *International Conference on Computational Science*, pages 235–244. Springer, 2003

P. Lindner, N. Currle-Linde, M. M. Resch, and E. Gabriel. Distributed application management in heterogeneous GRIDS. In *Euroweb 2002 conference*, pages 1–10, 2002

P. Lindner, T. Beisel, M. M. Resch, T. Imamura, R. Menday, D. Erwin, and P. Wieder. DFN-Project “GRIDWELTEN: User Requirements and Environments for GRID-Computing”. *DFN Mitteilungen*, Oct. 2003

D. Erwin, A. Streit, P. Lindner, and S. Wesner. Unicore plus final report-uniform interface to computing resources. Technical report, Forschungszentrum Jülich, 2003

DATA REPOSITORY D. Madrid-Morales, P. Lindner, and M. Periyasamy. Corpus of African Digital News from 600 Websites Formatted for Text Mining / Computational Text Analysis, 2021. URL <https://doi.org/10.18738/T8/UKJZ3E>

PEER REVIEWED PRESENTATIONS	Kniffin, K. M., Masters-Waage, Th., Guitierrez A., Edema-Sillo E., Madera J., Henderson E., Lindner P., Spitzmueller Ch. “How and When Interdisciplinary Are Promoted – and What Deans Perceive and Recommend“ contributed talk, 3rd International Conference on the Science of Science and Innovation (ICSSI), 2024
	Kniffin, K. M., Gutierrez, A., Madera, J. M., Spitzmueller, C., Edema-Sillo, E., Henderson, E., Lindner, P., 84th Annual Meeting of the Academy of Management (AOM 2024), joint presentation “Undervaluing Innovation and Entrepreneurship for Promotion and Tenure Decisions“
	Lindner, P. “Using Public History to Study Modern Feminism“, Panelist, National Council on Public History (NCPH) Conference 2024, Salt Lake City, Utah (April 13, 2024)
	Lindner, P., “Women’s History in the Digital Age“, Panelist, American Historical Association Annual Meeting (AHA 2024), San Francisco, California (January 4, 2024)
	Kniffin, K. M., Gutierrez, A., Madera, J. M., Spitzmueller, C., Edema-Sillo, E., Henderson, E., Lindner, P., 83th Annual Meeting of the Academy of Management (AOM 2023), joint presentation "Are Dual-Appointed Faculty Evaluated Differently than Single-Appointed Faculty?", Boston, MA. (August 8, 2023)
	Lindner, P., “Sharing stories from 1977: Notes from the early years of a Feminist digital humanities project“, Panelist, 2023 Berkshire Conference on the History of Women, Genders and Sexualities, Santa Clara University, California, (July 1, 2023)
	Lindner, P., “How Can UX Make History Accessible“, Co-PresneterUXPA 2023, User Experience Professionals Association, Austin, TX, United States. (June 22, 2023)
INVITED PRESENTATION & TALKS	Lindner, P. “Digital Feminist Humanities“, Panelist, Organization of American Historians Annual Meeting (OAH 2023), Los Angeles, CA, United States. (March 30, 2023)
	Lindner, P. NSF MERIF Workshop on Future Midscale Experimental Research Infrastructures, “MERI Support for Data Analysis Workflows for Social Sciences” (January 8, 2020)
	Lindner, P., “Measuring Research Productivity at scale – impact on Promotion & Tenure“, Seminar Talk, Department of Computer Science, University of British Columbia, Vancouver, BC, Canada. (May 8, 2023)
	Lindner, P. “Measuring Research Productivity at Scale“, Keynote, International Conference on Extreme Learning Machines (ELM2021) (December 5, 2021)
	Lindner, P., Brown P., Srinak K. and Smetaana A. Fort Bend Chamber of Commerce’s Fort Bend Future – Artificial Intelligence Series – Part 1 “What is AI?” AI Fort Bend, TX (March 31, 2021).
	Lindner P. and Neumann K. University of Houston Digital Research Commons Workshop – “How to keep your head above water during a digital project” (May 24, 2020)
	Lindner P. and Neumann K. Hewlett Packard Data Science Institute Seminar Series “Reconstructing Ancient Syria – Making the case for Data Science in the Humanities” (April 9, 2020)

GRANTS AND
SPONSORED
PROJECTS

	Number	Total Amount	Share
Internal Grants	10	\$106,070	\$32,201
External Grants	15	\$7,922,135	\$1,203,854
Total	25	\$8,028,205	\$1,236,055

2023-2026	Lindner, P. (Co-Principal) (50%), Zhang, Y. (Principal) (50%), "Collaborative Research: Cybertraining: Train the trainers as next generation leaders in underrepresented communities", <i>National Science Foundation (NSF)</i> , \$325,185
2023	Lindner, P. (25%) (Co-Principal), Wu, R. (50%)(Principal), Lendasse A. (25%) (Co-Principal), "AI Explainability, Security and AI Risk Management for machine learning, deep learning and generative models", Industry Research sponsored by <i>Alceberg</i> , \$600,000
2023-2024	Lindner, P. (3%) (Co-Principal), Rodwell E., Baeza Ventura G, Villarroel C., Gauthereau L., Yunzi Li M., Mazella D., Neumann, K., Beck Young N., Zarnow L., "Cougar Initiative to Engage (CITE): Summer Internship in Public History and Digital Humanities," Provost Office <i>University of Houston</i> , \$18,100
2023-2024	Lindner, P. (10%) (Co-Principal), Flynn, J. H. (90%) (Principal), "Monitoring related to ozone formation in and ozone and particulate matter transport into the Houston Region and the Dallas-Fort Worth region," <i>Texas Commission on Environmental Quality (TCEQ)</i> , \$400,000
2021-2024	Lindner, P. (Co-Principal at UH) (10%), Spitzmueller, C. (Principal) (60%), Madera, J. (Co-Principal) (15%), Henderson, E. (Co-Principal) (15%), "External review letters in promotion and tenure decision making: validity and fairness," <i>National Science Foundation (NSF)</i> , \$2,000,005 Total/ \$1,333,780 total for UH.
2022	Lindner, P. (20%) (Co-Principal), Price, D. (20%) (Co-Principal), Kapral, A. (20%) (Co-Principal), Ludwig, A. (20%) (Co-Principal), , Willey D. (20%) (Co-Principal), "Healing Justice: Innovating Holistic Indigent Defense," Elizabeth D. Rockwell Conference Funding, <i>National Science Foundation (NSF)</i> , \$30,000
2022-2023	Lindner, P. (5%) (Co-Principal), Rodwell E., Jackson, W. , Davidson S., Harwell D., Perales M., Neumann, K., Beck Young N., Zarnow L., "Cougar Initiative to Engage (CITE): CPH Summer Undergraduate Internship Program," Provost Office <i>University of Houston</i> , \$32,000
2022-2024	Lindner, P. (Co-Principal) (20%), Young, N. B. (Co-Principal) (40%), Zarnow, L. (Co-Principal) (40%), "Democratizing Politics: Mapping the Stories and Significance of the 1977 National Women's Conference," <i>National Endowment for the Humanities</i> , \$249,998
2022-2024	Lindner, P. (10%) (Co-Principal), Flynn, J. H. (45%)(Principal), Wang, Y. (45%)(Co-Principal), "Black and Brown Carbon (BC) ₂ monitoring in Houston and El Paso in 2022/23," <i>Texas Commission on Environmental Quality (TCEQ)</i> , \$1,113,000
2019-2021	Lindner, P. (30%) (Principal), Spitzmueller, C. (40%) (Co-Principal), Flynn, R. (30%) (Co-Principal), "Employee well-being and mindfulness as predictors of process and personal safety," <i>National Academy of Science, Engineering and Medicine</i> , \$828,113
2020-2024	Lindner, P. (5%) (Co-Principal), Grigorenko, E. (Principal), Francis D. (Co-Principal), Polloni L. (Co-Principal), Pavlidis I. (Co-Principal), "Individual Differences in Response to Stress:Behavioral and Neuropsychological Correlates," <i>Office of Naval Research (ONR)</i> , \$1,000,000
2021-2022	Lindner, P. (Co-Principal) (25%), Neumann, K. (50%) (Co-Principal), Rodwell, E. A. (25%) (Co-Principal), "Digital Projects for the Public: Prototyping Award," <i>National Endowment for the Humanities (NEH)</i> , \$98,095

2020-2021	Lindner, P. (Co-Principal), Vaid, S. (Principal), Feinberg, F. (Co-Principal), "Impact of Multiple Digital Sellers on Customer Utility," <i>Social Sciences and Humanities Research Council (SSHRC) Canada</i> , \$37,364
2021	Lindner, P. (Co-Principal) (33%), Neumann, K. (Co-Principal)(33%), Rodwell, E. A. (Co-Principal) (33%), <i>Loeb Classical Library Foundation Fellowship, Harvard University</i> , \$17,650
2021-2022	Lindner, P. (10%) (Co-Principal), Flynn, J. H. (45%) (Principal), Wang, Y. (45%) (Co-Principal), "Black and Brown Carbon (BC)2 monitoring in Houston and El Paso in the 2021 Ozone Season," <i>Texas Commission on Environmental Quality (TCEQ)</i> , \$555,000
2021-2022	Lindner, P. (10%) (Co-Principal), Flynn, J. H. (90%) (Principal), "Monitoring related to ozone formation in and ozone and particulate matter transport into the Houston Region and the Dallas-Fort Worth region," <i>Texas Commission on Environmental Quality (TCEQ)</i> , \$396,358
2020-2021	Lindner, P. (10%) (Co-Principal), Flynn, J. H. (45%) (Principal), Wang, Y. (45%) (Co-Principal), "Black and Brown Carbon (BC)2 monitoring in El Paso and Houston in 2020," <i>Texas Commission on Environmental Quality (TCEQ)</i> , \$808,295
2020-2025	Lindner, P. (10%) (Co-Principal), Flynn, J. H. (90%) (Principal), "Gulf of Mexico Region (GOMR) Coastal ambient Air quality monitoring: a pilot study", <i>Ambilabs / Bureau of Ocean Energy Management</i> , \$141,197
2021	Lindner, P. (33%) (Co-Principal), Kristina, N. (34%) (Co-Principal), Rodwell, E. A. (33%) (Co-Principal), "DRC Sponsored Projects: Finding Connection in Ancient Syria" <i>University of Houston Libraries</i> , \$6,500
2021	Madrid-Morales, K. (50%) (Principal), Lindner, P. (50%) (Co-Principal), "Development Grants: A Multilingual Database of Digital News in 54 African Countries" <i>University of Houston Libraries</i> , \$6,500
2020	Hellmueller, L. (34%) (Principal), Camej, L. (33%) (Co-Principal), Lindner, P. (33%) (Co-Principal), "Research Progress Grant - Early Career Televised Debates 2020: The quality of real-time political discussion on media organizations' Facebook pages," <i>University of Houston, College of Liberal Arts & Social Sciences</i> , \$7,669.85
2020	Neumann, K. (50%) (Co-Principal), Lindner, P. (50%) (Co-Principal), "Development Grants: Finding Connection in Ancient Syria," <i>University of Houston Libraries</i> , \$6,500
2019	Lindner, P. (100%) (Principal) "Data Science 101" Teaching Innovation Program (TIP) Grant, <i>University of Houston</i> , \$10,400
2018	Neumann, K. (50%) (Co-Principal), Lindner, P. (50%) (Co-Principal), "Seed Grants: Finding Connection in Ancient Syria," <i>University of Houston Libraries</i> , \$3,000
2017	Lindner, P. (50%) (Co-Principal), Price, D. (50%) (Co-Principal), "Seed Grants: Embodied Approaches to Digital Inquiry in Art History," <i>University of Houston Libraries</i> , \$3,000

SERVICE TO THE
PROFESSION

Conference service:

- Special Session Chair, "Explainable Artificial Intelligence (XAI)", 2024 IEEE World Congress on Computational Intelligence (WCCI)
- Organizing Committee, The 11th International Conference on Extreme Learning Machines (ELM2021)
- Session Organizer, "Machine Learning for Measuring and Analyzing Online Social Communications" at ESANN 2021 – 29th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning
- Finance Chair, IEEE International Conference on Advanced Video and Signal Based Surveillance, Santa Fe, New Mexico, September 1-3, 2008

Reviewer service:

- NSF Panelist (2022, 2023, 2024)
- Reviewer for multiple journals, including Nature Scientific Reports, European Journal of Work and Organizational Psychology, Asian Academy of Management Journal, Open Research Europe (2019 - current)
- Editor with Frontiers in Artificial Intelligence (2022 - current)
- Elsevier Book proposal reviewer "Full-Stack Web Development from the Ground Up" (2021)
- Reviewer for new Data Analytics, B.S. program, Southern New Hampshire University (2020)

Computing Community service:

- Chair ITiCSE 2024 Working Group "Equity-Minded Computer Science Undergraduate Curriculum"
- Member ITiCSE 2023 Working Group "Enhancing Diversity and Inclusion in Computer Science Undergraduate Programs: The Role of Admissions"
- Member Association of Computing Machinery (ACM), 2019-current
- Member of Global Grid Forum (GGF), 2003-2005

Digital Humanities Community service:

- Advisory Board member, Digital Research Commons (DRC) University of Houston, 2018-current

Department service:

- Program Coordinator (Curriculum Development) - Computer Information Systems Program, 2023 - current

Mentoring:

- Director DASH (Data Analytics in Student Hands) at the University of Houston
- Faculty Advisor - FITP (Future Information Technology Professionals) Student organization at the University of Houston, 2022 - current

DIRECTED
STUDENT
LEARNING

2023/2024	Master's Thesis Dissertation Committee Chair, "Explainability in Large Language Models." Advised: Jeremy Edwards
Spring 2024	REACH Internship Advisor, "SYRIOS - UX Studies." Advised: Emily Nguyen, Iris Alkatheri
Fall 2023	Independent Study, "Cloud Solution Case Study for Enterprise Applications." Advised: Jeremy Griffith
Fall 2023	Undergraduate Honors Thesis Reader, "Model-based and data-based monitoring of Oil & Gas Transmission pipelines." Advised: Harry Goldberg
2022/2023	Master's Thesis Dissertation Committee Member, "Playing With the Past: The Importance of Historical Video Games for the Future of the Historical Field." Advised: Brian T. Erickson
2019–2023	Ph.D. Dissertation Committee Member, "Identifying Genetic Associations to Disorders in Brain-Imaging Genetic Data." Advised: Connor Cheek
Spring 2023	REACH Internship Advisor, "SYRIOS - UX studies." Advised: Haadi Hasan, Rory Demsey
Spring 2023	Undergraduate Honors Thesis Reader, "Spectral power density analysis of patients with primary progressive aphasia using resting-state electroencephalography." Advised: Christina Quinn
2018–2022	Ph.D. Thesis Dissertation Committee Member, "Parallel I/O on Compressed Data Files." Advised: Siddhesh Pratap Singh
2021/2022	Master's Thesis Committee Member, "A Parallel Implementation of Pandas Framework." Advised: Saba Khan
Spring 2022	Undergraduate Honors Thesis Reader, "Gender Differences in Job Search and Networking Behaviors Among Scholars." Advised: DuBois Barnes
2018–2021	Ph.D. Thesis Dissertation Committee Member, "Clustering of individual entities based on common features." Advised: Maryam Bagheri
Fall 2021	Independent Study, "Deployment Case Study for IT operations software." Advised: Rachel Voigt
Spring 2020	Undergraduate Honors Thesis Reader, "The Trickle-Down Effect of Academic Mentoring." Advised: Alyssa Lezcano
Spring 2020	Undergraduate Honors Thesis Reader, "The work-life interface and job performance." Advised: Cheyenne Salazar
Spring 2019	Undergraduate Honors Thesis Reader, "Characterizing agent behavior under meta reinforcement learning with Gridworld." Advised: Nolan Amit Shah
Spring 2019	Undergraduate Honors Thesis Reader, "Application of Spaceborne, Airborne and Ground-based Hyperspectral Imaging to Detect CH ₄ ." Advised: Evans Awere Onyango
2013–2016	Ph.D. Dissertation Committee Member, "Association Rule Mining for Risk Assessment in Epidemiology." Advised: Guilia Toti

TEACHING

Spring 2024	CIS 4397: Advanced Topics in NoSQL Databases
Fall 2023	CIS 4339: Enterprise Application Development CIS 6397: Text Mining
Spring 2023	CIS 4339: Enterprise Application Development CIS 6397: Text Mining
Spring 2024	CIS 4397: Advanced Topics in NoSQL Databases
Fall 2023	CIS 4339: Enterprise Application Development CIS 6397: Text Mining
Spring 2023	CIS 4339: Enterprise Application Development CIS 6397: Text Mining
Fall 2022	CIS 4339: Enterprise Application Development
Spring 2022	CIS 4339: Enterprise Application Development
Fall 2021	CIS 4339: Enterprise Application Development
Spring 2021	CIS 3368: Advanced Information System Development
Fall 2020	CIS 6371: Data Analytics Solutions CIS 3368: Advanced Information System Development
Spring 2020	CIS 2348: Information System Application Development CIS 6397 Selected Topics: Introduction to Textmining
Fall 2019	CIS 2348: Information System Application Development
Spring 2018	ENGI 6397 Selected Topics: Data Science Projects, co-taught with G. Toti
Fall 2018	R for Data Science, Center for Advanced Computing and Data Science (CACDS), not-for-credit course
Spring 2018	HON 4397 Selected Topics: Introduction to Digital Humanities
2017/2018	Introduction to Parallel Computing, CACDS Vistas in Advanced Computing Summer Program
Summer 2018	Data Analysis in R, Center for Advanced Computing and Data Science (CACDS), Summer Bootcamp
Spring 2018	Introduction to R, Center for Advanced Computing and Data Science (CACDS), not-for-credit course
Spring 2018	Introduction to Linux & Cluster Computing, Center for Advanced Computing and Data Science (CACDS), not-for-credit course
Fall 2017	Introduction to R, Center for Advanced Computing and Data Science (CACDS), not-for-credit course
Fall 2017	Introduction to Linux & Cluster Computing, Center for Advanced Computing and Data Science (CACDS), not-for-credit course
Summer 2017	Data Analysis in R, Center for Advanced Computing and Data Science (CACDS), Summer Bootcamp
Fall 20216	CCS 2350: Perspectives Cultural Studies: Big Data in Social Science”, co-taught with A. Bentley
Spring 2015	HON 4397: Open Data: Tools for a New Age

TEACHING
EFFECTIVENESS

Semester Year	Course/Section	Section Avg±SD Out of 5	College Avg±SD Out of 5	Enrolled
Spring 2024	CIS 4397-25472 Selected Topics: Advanced Topics in NoSQL DBs	4.44±0.37	4.23±1.02	12
Fall 2023	CIS 6397-24353 Selected Topics: Introduction to Textmining	4.74±0.50	4.22±1.01	45
Fall 2023	CIS 4339-12742 Enterprise Application Development	3.76±1.12	4.22±1.01	68
Spring 2023	CIS 6397-24938 Selected Topics: Introduction to Textmining	4.82±0.40	4.16±1.02	37
Spring 2023	CIS 4339-14682 Enterprise Application Development	3.79±1.09	4.16±1.02	87
Fall 2022	CIS 4339-12928 Enterprise Application Development	3.95±0.91	4.15±1.06	129
Spring 2022	CIS 4339-18810 Enterprise Application Development	4.14±0.85	4.11±1.05	55
Spring 2022	CIS 4339-21361 Enterprise Application Development	4.23±0.8	4.11±1.05	54
Fall 2021	CIS 4339-14075 Enterprise Application Development	4.09±0.97	4.05±1.09	150
Spring 2021	CIS 3368-28428 Advanced Information System Development	4.29±0.99	4.03±1.1	27
Fall 2020	CIS 3368-25072 Advanced Information System Development	3.93±0.65	3.99±1.14	48
Fall 2020	CIS 6371-21192 Data Analytics Solutions	4.33±1.16	3.99±1.14	16
Spring 2020	CIS 2348-16120 Information Systems Application Development	4.08±0.84	4.02±1.11	38
Spring 2020	CIS 6397-25308 Selected Topics: Introduction to Textmining	4±0	4.02±1.11	5
Fall 2019	CIS 2348-18944 Information Systems Application Development	4.16±0.9	4±1.1	36
Overall Average		4.18	4.10	

Based on Student Evaluations Question 11: Overall teaching effectiveness of the instructor.
Rated on 5 point scale (5 - Outstanding, 1 - Poor)