# Jana Diesner, PhD - Curriculum Vitae

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### **RESEARCH AREAS**

- Social Computing/ Computational Social Science, Human-Centered Data Science and AI
- Responsible Computing; FATE (fairness, accountability, transparency, ethics) of computing
- Network Analysis, Natural Language Processing, Machine Learning and AI

#### **APPOINTMENTS**

#### **Technical University of Munich**

 Full Professor and Chair for Human Centered Computing, School of Social Sciences and Technology, Affiliate Professor at School of Computing, Information and Technology

02/2024-

2017-2020

### **University of Illinois at Urbana-Champaign (UIUC)**

- Affiliate Associate Professor	02/2024-curent		
- Associate Professor, School of Information Sciences	08/2018-01/2024		
- Assistant Professor, School of Information Sciences	2012-2018		
Additional appointments at UIUC, School of Information Sciences:			
- Director of Undergraduate Programs	2022-2025		
- Theme Lead for Human-Centered Data Science and AI	2022-2023		
- Director of Strategic Initiatives	2019-2021		

- Director of PhD Program Additional appointments at UIUC:

- NLP Expert in Residence, Champaign Research Park 2018-2024

- Faculty Affiliate (current): Department of Computer Science

**EDUCATION** 

# Carnegie Mellon University, School of Computer Science, Pittsburgh, PA

- Ph.D. Computation, Organizations and Society (now Societal Computing)
Committee: Kathleen Carley, Carolyn Rose, William Cohen, Jeffrey Johnson

- M.S. Computation, Organizations and Society (now Societal Computing) 2007

# Dresden University of Technology, Dresden, Germany

M.A. (Magister Artium), Communication Science

2003

2020

# SELECTED HONORS AND AWARDS (paper awards listed under Publications)

-	Leadership Academy Fenowship for underrepresented leaders in STEM higher	2020
	education, awarded by National Alliance for Inclusive & Diverse STEM Faculty	
-	CIO Scholar for Information Research & Technology, UIUC	2018
-	RC Evans Data Analytics Fellowship, awarded by Deloitte Foundation Center for	2018
	Business Analytics, UIUC	
-	Linowes Fellow, awarded by Cline Center for Advanced Social Research, UIUC	2018
_	Dori I Maynard Senior fellow, awarded by Center for Investigative Reporting and	2016

- Dori J. Maynard Senior fellow, awarded by Center for Investigative Reporting and Robert C. Maynard Institute for Journalism Education
- Faculty Fellowship, awarded by National Center for Supercomputing Applications 2015
- Siebel Scholarship, awarded annually for academic excellence and demonstrated leadership to 80 top students from the world's leading graduate schools (\$35,000)

Gelfand Student Award for Educational Outreach and Service Learning, awarded by Carnegie Mellon University

### PREVIOUS EMPLOYMENT

# Carnegie Mellon University, School of Computer Science

Software Developer and Research Associate

06/2003-08/2006

### Carnegie Mellon University, Institute for Complex Engineered Systems

Research Scholar

2000-2002

#### **FUNDING**

# Summary: \$ 1,701,938 as single PI; \$ 28,091,732 as Co-PI (Diesner: \$ 811,572): \$58,401 as senior personnel

# 1. Expanding Applications of (Social) Network Analysis to STEM Education Research

- Principal investigator: Jennifer Cromley, Role Diesner: key personnel (mentor)
- Funder: NSF
- Period: 10/2022-09/2025
- Total: \$169,042 (Diesner: \$58,401)

# 2. Geospatial Variability of Illicit Opioid Use and Disparities in Treatment Resources

- Principal investigators: Hyojung Kang, Jana Diesner, Rakesh Nagi, Chrysafis Vogiatzis
- Funder: CHAD (Center on Health, Aging, and Disability) pilot grant, UIUC
- Period: 08/2022-02/2024
- Total: \$30,000 (Diesner: \$5,562)

# 3. Establishing a Templeton LSST Early-Career Research Fellowship

- Principal investigator: Jana Diesner
- Funder: The John Templeton Foundation
- Period: 07/2022-06/2026
- Total: \$241,363

#### 4. Contributing to the Implementation and Study of the LSSTC Catalyst Fellowship

- Principal Investigator: Jana Diesner
- Funder: Large Synoptic Survey Telescope (LSST) Corporation and the John Templeton Foundation
- Period: 06/2022- 05/2023
- Total: \$10,700

#### 5. Data Bias Assessment

- Principal Investigator: Stephen Downie, Co-PIs: Jana Diesner, Bertram Ludaescher, Mike Twidale, Madelyn Sanfilippo
- Funder: Acxiom
- Period: 09/2021- 03/2022
- Total: \$202,046 (Diesner: \$61,053)

# 6. TextTransfer: Assessing Impact Patterns in Research Texts Applying Corpus Driven Methods (Subproject: Implementation and Practice in Linguistic Use Cases)

- Principal Investigator: Dr. Andreas Witt (IDS), UIUC PI: Jana Diesner
- Funder: Federal Ministry of Education and Research (Germany) and Institute for German Language (IDS) (Germany)
- Period: 06/2020-05/2023
- Total: \$1,052,100 (Diesner: \$164,733)

### 7. Health Data Literacy Ambassadors

- Principal Investigator: Rachel Magee, Co-PIs: Catherine Blake, Jana Diesner

- Funder: University of Illinois Extension
- Period: 2020-2022
- Total: \$59,742 (Diesner: \$5,705)

# 8. Reliable Extraction of Emergency Response Networks from Text Data and Benchmarking with National Emergency Response Guidelines

- Principal Investigator: Jana Diesner
- Funder: Department of Homeland Security and Critical Infrastructure Resilience Institute
- Period: 2019-2020
- Total: \$200,000

# 9. Conservation Legacies: Understanding the Long-term Impacts of Private Foundation Investment in International Biodiversity Conservation

- Principal Investigators: Jana Diesner and Daniel Miller (Notre Dame), Co-PIs: Jeremy Brooks (Ohio State University), Aili Pyhälä (University of Helsinki), Sonam Wang (Bhutan Institute for Himalayan Studies)
- Funder: MacArthur Foundation
- Period: 2019-2022
- Total: \$550,000 (Diesner: \$54,486)

# 10. Review and Assessment of the Usage of Computational Methods for Humanitarian Assistance and Disaster Relief (HADR) Efforts, and Scalable Measurement of Emergency Response from Text Data

- Principal Investigator: Jana Diesner
- Funder: Department of Homeland Security and Critical Infrastructure Resilience Institute
- Period: 12/2017-09/2018
- Total: \$100,000

# 11. Alliance for Internet of Battlefield Things (IoBT) Research on Evolving Intelligent Goal-driven Networks (REIGN)

- Principal Investigator: Tarek Abdelzaher
- Co-PIs at UIUC: Tamer Basar, Jana Diesner, Nitin Vaidya, Venugopal Veeravalli
- Funder: U.S. Army Research Laboratory (ARL)
- Period: 09/2017-09/2022
- Total: \$25,600,000 (Diesner: about \$407,365)

# 12. TextTransfer – Corpus-based detection of secondary practical usage of scientific publications

- Principal Investigator: Dr. Andreas Witt (IDS), R&D PI: Jana Diesner
- Funder: Federal Ministry of Education and Research (Germany) and Institute for German Language (IDS) (Germany)
- Period: 06/2017-12/2019
- Total: \$597,844 (Diesner: \$112,667)

# 13. Academia-Industry Big Data Collaboration for Early Career Researchers program: Developing organizational expertise and resources for the responsible conduct of research with human generated and publicly available data

- Project Leader: Jana Diesner
- Funder: Midwest Big Data Hub & Computing Community Consortium
- Period: 2016
- Total: \$5,000

#### 14. Midwest Big Data Hub: Building Communities to Harness the Data Revolution

- Principal Investigators: William Gropp, Co-PI: Catherine Blake, Elif Ertekin (all UIUC)

- Agency: National Science Foundation
- Role Diesner: Senior Personnel
- Period: 06/2019-05/2023
- Total: \$ 2,883,274 (UIUC), share Diesner: \$0

# 15. Analysis of academic activity patterns in academic literature

- Principal Investigator: Jana Diesner; Co-PI: Vetle Torvik
- Funder: KISTI (Korea Institute of Science and Technology Information)
- Period: 07/2017-11/2017
- Total: \$25,000

# 16. Selection and Influence: Identification of link formation mechanisms in scientific collaboration networks

- Principal Investigator: Jana Diesner
- Funder: KISTI (Korea Institute of Science and Technology Information)
- Period: 05/2016-11/2016
- Total: \$33,000

### 17. Predictive modeling for impact assessment

- Principal Investigator: Jana Diesner
- Funder: NCSA (National Center for Supercomputing Applications) Faculty Fellowship
- Period: 08/2015-07/2016
- Total: \$23,000

# 18. Predictive modeling for detection and classification of medical entities and facts

- Principal Investigator: Jana Diesner
- Funder: IMO (Intelligent Medical Objects), grant #2014-04797-00-00
- Period: 05/2015-12/2017
- Total: \$300,000

#### 19. Computational impact assessment of issue focused media and information products

- Principal Investigator: Jana Diesner
- Funder: FORD Foundation, grant #0155-0370
- Period: 04/2015-09/2016
- Total: \$150,000

# 20. Modeling of nation-scale scientific collaboration networks and impact of entity disambiguation on big network data

- Principal Investigator: Jana Diesner
- Funder: KISTI (Korea Institute of Science and Technology Information), grant C3240
- Period: 04/2015-09/2015
- Total: \$50,000

#### 21. Socio-technical data analytics for improving impact and impact assessment

- Principal Investigator: Jana Diesner
- Funder: Anheuser Busch, grant #2014-04922
- Period: 05/2014 09/2015
- Total: \$125,000

# 22. Computational impact assessment of social justice documentaries and media

- Principal Investigator: Jana Diesner
- Funder: FORD Foundation, grant #0145-0558
- Period: 04/2014-09/2015
- Total: \$150,000

#### 23. Research on the authority data based scientist network analysis modeling

- Principal Investigator: Jana Diesner
- Funder: KISTI (Korea Institute of Science and Technology Information), grant P14033
- Period: 03/2014-09/2014
- Total: \$47,475

# 24. Evaluation of the performance and usability of the ConText technology

- Principal Investigator: Jana Diesner
- Funder: Center for Investigative Reporting
- Period: 2013-2014
- Total: \$7,500

# 25. Computational expansion of controlled medical vocabulary and identification of organizational social media footprint

- Principal Investigator: Jana Diesner
- Funder: IMO (Intelligent Medical Objects), grant #2013-05716-00-00
- Period: 06/2013 12/2013
- Total: \$38,900

# 26. Developing an entity extractor for the scalable construction of semantically rich sociotechnical network data

- Principal Investigator: Jana Diesner, Co-PI: Brent Fegley
- Funder: Start-up allocation award from Extreme Science and Engineering Discovery Environment (XSEDE)
- Period: 2013
- Total: 30,000 service units + personnel support from Pittsburgh supercomputing center
- Amount of effort: 50%

# 27. Impact assessment of social justice documentaries

- Principal Investigator: Jana Diesner
- Funder: FORD Foundation, grant #0125-6162
- Period: 11/2012-02/2014
- Total: \$150,000

#### 28. Other Gifts and Contracts

- Principal Investigator: Jana Diesner
- Funders: Connected Action, Peace is Loud, Shoot First, Inc., Picture Motion, VM People, Robert Stone Productions, Social Media Research Foundation
- Period: 2013-2016
- Total: \$45,000

#### **PUBLICATIONS** (student advisees are underlined)

### **Papers in Peer Reviewed Journal**

- J32 Mishra, A., Lee, H., Jeoung, S., Torvik, V., & Diesner, J. (accepted). Patterns of diversity in biomedical coauthorship: An analysis across authors' ethnicity, gender, age, and expertise. *PLOS ONE*.
- J31 Neal, Z.P., Almquist, Z., Bagrow, J., Clauset, A., **Diesner, J.**, Lazega, E., Lovato, J., Moody, J., Peixoto, T.P., Steinert-Threlkeld, Z., Teixeira, A.S. (2024). Recommendations for sharing network data and materials. *Network Science*, *1-14*. doi:10.1017/nws.2024.16
- J30 Rezvaneh, R., Dinh, L., Jiang, L., & **Diesner**, J. (2024). Structural Balance in Real-World Social Networks: Incorporating Direction and Transitivity in Measuring Partial Balance. *Social Network Analysis and Mining*, 14, 168. https://doi.org/10.1007/s13278-024-01339-1

- J29 <u>Kim, J., Kim, J., Kim, J., Lee, A., & **Diesner, J.** (2024): Deep Learning Approaches for Causal Sentence Identification from Nuclear Safety Reports. *PLOS ONE*, 19(8):e0308155. doi: 10.1371/journal.pone.0308155. PMID: 39172869.</u>
- J28 <u>Dinh, L., Yang, P.,</u> & **Diesner, J.** (2024): From plan to practice: Interorganizational crisis response networks from governmental guidelines and real-world collaborations during hurricane events. *Journal of Contingencies and Crisis Management*, 32(3)e12601. https://doi.org/10.1111/1468-5973.12601
- J27 <u>Hu, Y.</u>, LeBlanc, Z., **Diesner, J.**, Underwood, T., Layne-Worthey, G., & Downie, J. S. (2024). Complexities of leveraging user-generated book reviews for scholarly research: transiency, power dynamics, and cultural dependency. *International Journal on Digital Libraries*, 25(2), 317-340. https://doi.org/10.1007/s00799-023-00376-z
- J26 <u>Dinh, L., Sarol, J.M., Jeoung, S.,</u> & **Diesner, J.** (2023): Are we projecting gender biases to ungendered things? Differences in referring to female versus male named hurricanes in 33 years of news coverage. *Computational Communication Research*, 5(1), 141-180. https://doi.org/10.5117/CCR2023.1.006.DINH.
- J25 <u>Dinh, L., Rezapour, R., Jiang, L.</u>, & **Diesner, J.** (2023). Enhancing Structural Balance to Analyze Signed Digraphs of Real-world Organizational Networks. *Frontiers in Human Dynamics, section Social Networks*. 4. 10.3389/fhumd.2022.1028393
- J24 <u>Han, K., Rezapour, R.,</u> Nakamura, K., Devkota, D., Miller, D. C., & **Diesner, J.** (2023). An expert-in-the-loop method for domain-specific document categorization based on small training data. *Journal of the Association for Information Science and Technology*, 74(6), 669–684. https://doi.org/10.1002/asi.24714
- J23 Aref, S., <u>Dinh, L.</u>, <u>Rezapour, R.</u>, & **Diesner, J.** (2020). Multilevel structural evaluation of signed directed social networks based on balance theory. *Scientific Reports*, 10, 15228. doi: 10.1038/s41598-020-71838-6 (Impact Factor 4.38)
- J22 <u>Parulian, N., Lu, T., Mishra, S., Avram, M.,</u> & **Diesner, J.** (2020). Effectiveness of the execution and prevention of metric-based adversarial attacks on social network data. *Information*, 11(6), 306. 10.3390/info11060306 (Impact Factor 2.38)
- J21 Hilbert, M., Barnett, G., Blumenstock, J., Contractor, N., Diesner, J., Frey, S., Gonzales-Bailon, S., Lamberson, P.J., Pan, J., Peng, T.-Q., Shen, C., Smaldino, P.E., van Atteveldt, W., Waldherr, A., Zhan, J., Zhu, J.J.H. (2019). Computational communication science: A methodological catalyzer for a maturing discipline. *International Journal of Communication*, 13 (23), 3912-3934. https://ijoc.org/index.php/ijoc/article/view/10675 (Impact Factor 1.80)
- J20 <u>Kim, J.,</u> & **Diesner, J.** (2019). Formational bounds of link prediction in collaboration networks. *Scientometrics*, 1-20. 10.1007/s11192-019-03055-6 (Impact Factor 3.24)
- J19 <u>Mishra, S.</u>, Fegley, B.D., **Diesner, J.**, & Torvik, V.I. (2018). Self-citation is the hallmark of productive authors, of any gender. *PLoS ONE*, 13(9): e0195773. 10.1371/journal.pone.0195773 (Impact Factor 3.24)
- J18 Abdelzaher T., Ayanian N., Basar T., **Diesner J**., Diggavi S., Ganesan D., Govindan R., Jha S., Lepoint T., Marlin B., Nahrstedt K., Nicol D., Rajkumar R., Russell S., Seshia S., Sha F., Shenoy P., Srivastava M., Sukhatme G., Swami A., Tabuada P., Towsley D., Vaidya N., & Veeravalli V. (2018). Toward an Internet of Battlefield Things: A resilience perspective. *IEEE Computer* 51(11), 24-36. 10.1109/MC.2018.2876048 (Impact Factor 3.56)
- J17 <u>Kim, J.,</u> & **Diesner, J.** (2017). Over-time measurement of triadic closure in coauthorship networks. *Social Network Analysis and Mining (SNAM)*, 7(9). 10.1007/s13278-017-0428-3 (Impact Factor 3.87)

- J16 <u>Kim, J., Tao L.</u>, Lee, S.H., & **Diesner, J.** (2016). Evolution and structure of scientific copublishing network in Korea during 1948-2011. *Scientometrics*, 107(1):27-41. 10.1007/s11192-016-1878-5 (Impact Factor 3.24)
- J15 <u>Kim, J.,</u> & **Diesner, J.** (2015). Distortive effects of initial-based name disambiguation on measurements of large-scale coauthorship networks. *Journal of the Association for Information Science and Technology (JASIST)*, 67(6), 1446-1461. 10.1002/asi.23489 (Impact Factor 2.69)
- J14 **Diesner, J.** (2015) Small decisions with big impact on data analytics. *Big Data & Society*, 2(2). 10.1177/2053951715617185 (Impact Factor 5.99)
- J13 <u>Kim, J.</u>, & **Diesner, J.** (2015). The effect of data pre-processing on understanding the evolution of collaboration networks. *Journal of Informetrics*, 9(1), 226-236. 10.1016/j.joi.2015.01.002 (Impact Factor 4.15)
- J12 <u>Kim, J.</u>, & **Diesner, J.** (2015). Coauthorship networks: A directed network approach considering the order and number of coauthors. *Journal of the Association for Information Science and Technology (JASIS&T)*, 66(12), 2685-2696. 10.1002/asi.23361 (Impact Factor 2.69)
- J11 **Diesner, J.**, <u>Kim, J.</u>, & Pak, S. (2014). Computational impact assessment of social justice documentaries. *Journal of Electronic Publishing (JEP), special issue Metrics for Measuring Publishing Value: Alternative and Otherwise*, 17(3). 10.3998/3336451.0017.306 (Impact Factor 0.33)
- J10 <u>Kim, J.</u>, Kim, H, & **Diesner, J.** (2014). The impact of name ambiguity on coauthorship network measurements. *Journal of Information Science Theory and Practice*, 2(2), 6-15. 10.1633/JISTaP.2014.2.2.1 (Impact Factor 0.70)
- J9 <u>Kim, J.,</u> & **Diesner, J.** (2014). A network-based approach to coauthorship credit allocation. *Scientometrics*, 101(1), 587-602. 10.1007/s11192-014-1253-3 (Impact Factor 3.24)
- J8 **Diesner, J.** (2013). From Texts to Networks: Detecting and managing the impact of methodological choices for extracting network data from text data. *German Journal of Artificial Intelligence*, 27(1), 75-78. 10.1007/s13218-012-0225-0
- J7 van Holt, T., Johnson, J.C., Carley, K.M., Brinkley, J., & **Diesner, J.** (2013). Rapid ethnographic assessment for cultural mapping. *Poetics*, 41(4), 366-383. 10.1016/j.poetic.2013.05.004 (Impact Factor 1.68)
- Diesner, J., Carley, K.M., & Tambayong, L. (2012). Mapping socio-cultural networks of Sudan from open-source, large-scale text data. *Computational and Mathematical Organization Theory*, 18(3), 328-339. 10.1007/s10588-012-9126-x (Impact Factor 1.56)
- J5 Chang Y., **Diesner, J.**, & Carley, K.M. (2012). Towards automated definition acquisition from operations law. *IEEE Transactions on Systems, Man, and Cybernetics*, *Part C*, 42(2), 223-232. 10.1109/TSMCC.2011.2110643 (Impact Factor 2.17)
- J4 Dabbish, L., Towne, B., **Diesner, J.**, & Herbsleb, J. (2011). Construction of association networks from communication in teams working on complex projects. *Statistical Analysis and Data Mining (SAM)*, 4(5), 547-563. 10.1002/sam.10135 (Impact Factor 1.47)
- J3 **Diesner, J.**, & Carley, K.M. (2008). Conditional random fields for entity extraction and ontological text coding. *Computational and Mathematical Organization Theory*, 14(3), 248-262. 10.1007/s10588-008-9029-z (Impact Factor 1.56)

- J2 Carley, K.M., **Diesner, J.**, Reminga, J., & Tsvetovat, M. (2007). Toward an interoperable dynamic network analysis toolkit. *Decision Support Systems (DSS)*, 43(4), 1324-1347. 10.1016/j.dss.2006.04.003 (Impact Factor 5.80)
- J1 **Diesner, J.**, Frantz, T., & Carley, K.M. (2005). Communication networks from the Enron email corpus "It's always about the people Enron is no different". *Computational and Mathematical Organization Theory*, 11(3), 201-228. 10.1007/s10588-005-5377-0 (Impact Factor 1.56)

#### Peer Reviewed Conference (full papers unless noted otherwise)

- C50 You, Z., Han, K., Zhu, H., Ludaescher, B., & **Diesner, J.** (2024). SciPrompt: Knowledge-Augmented Prompting for Fine-Grained Categorization of Scientific Topics. In Proceedings of *Conference on Empirical Methods in Natural Language (EMNLP)*, Miami, LF.
- C49 Yang, P., Dinh, L., Stratton, A., & **Diesner**, J. (2024) Detection and Categorization of Needs during Crises Based on Twitter Data. In Proceedings of *International AAAI Conference on Web and Social Media (ICWSM)*, 18(1), 1713-1726, Buffalo, NY, USA. <a href="https://doi.org/10.1609/icwsm.v18i1.31420">https://doi.org/10.1609/icwsm.v18i1.31420</a>.
- C48 <u>Ge, Y., Jeoung, S.</u>, **Diesner, J.** (2024): Extractive Summarization via Fine-grained Semantic Tuple Extraction. In Proceedings of *17th International Natural Language Generation Conference (INGL)*, Tokyo, Japan.
- C47 <u>Han, K., Yang, P.</u>, & **Diesner, J.** (2024) Topics, temporal patterns, and network characteristics of AI-related discourse on Reddit. In Proceedings of *International Conference on Social Networks Analysis and Mining (ASONAM)*, Calabria, Italy.
- C46 Becker, M., <u>Han, K.</u>, Werthmann, A., <u>Rezapour, R.</u>, <u>Lee, H.</u>, & **Diesner, J.** (2024). Detecting Impact Relevant Sections in Scientific Research. In Proceedings of *Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024)* (pp. 4744-4749), Turin, Italy.
- C45 <u>Ge, Y., Jeoung, S.</u>, Dinh, L., & **Diesner, J.** (2024). Detection and Mitigation of the Negative Impact of Dataset Extractivity on Abstractive Summarization. *Findings of ACL*, 13963-13976, Association for Computational Linguistics, Bangkok, Thailand.
- C44 <u>Jeoung, S., Ge, Y.,</u> & **Diesner, J.** (2023). StereoMap: How Stereotypes in Large Language Models resemble Human-like Stereotypes. In Proceedings of *Conference on Empirical Methods in Natural Language (EMNLP)*, Singapore.
- C43 Mishra, A., Diesner, J., & Torvik, V.I. (2023). A probabilistic model of 'Hype' in scientific abstracts. In Proceedings of 19th International Conference of the International Society for Scientometrics and Informetrics (ISSI), 2, 323–328. https://doi.org/10.5281/zenodo.8428805. Bloomington, IN, USA.
- C42 <u>Rezapour, R., Delgado Ramos</u>, D., Jeoung, S., & **Diesner, J.** (2023). Moving Beyond Stance Detection in Cross-Cutting Communication Analysis. In *International Conference on Social Computing, Behavioral-Cultural Modeling and Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS), (pp. 305-315). Springer Nature.*
- C41 <u>Ge, Y.</u>, Xiao, Z., **Diesner, J.**, Ji, H., Karahalios, K., & Sundaram, H. (2023). What should I Ask: A Knowledge-driven Approach for Follow-up Questions Generation in Conversational Surveys. In Proceedings of *37<sup>th</sup> Pacific Asia Conference on Language, Information and Computation (PACLIC)*, Hong Kong.

- C40 <u>Hu, Y.</u>, Layne-Worthey, G., Martaus, E., Stephen, J.S., & **Diesner, J.** (2023) Research with User-Generated Book Review Data: Legal and Ethical Pitfalls and Contextualized Mitigation, *iConference*, Barcelona, Spain. \***Best Paper Award**
- C39 Shang, W., Chen, S., Chen, Y., & **Diesner, J.** (2023). Structural Characteristics in Historical Networks Reveal Changes in Political Culture: An Example From Northern Song China (960–1127 CE). Proceedings of *Computational Humanities Research Conference* (*CEUR*), Vol. 3558, pp. 263-273, Paris, France.
- C38 <u>Dinh, L., Kulkarni, S., Yang, P.,</u> & **Diesner, J.** (2022). Reliability of Methods for Extracting Collaboration Networks from Crisis-related Situational Reports and Tweets. Proceedings of *Information Systems for Crisis Response and Management (ISCRAM)*.
- C37 Hu, Y., LeBlanc, Z., **Diesner, J.**, Underwood, T., Layne-Worthey, G., & Downie, J.S. (2022). Complexities Associated with User-generated Book Reviews in Digital Libraries: Temporal, Cultural, and Political Case Studies. Proceedings of *ACM Joint Conference on Digital Libraries* (JDCL), Cologne, Germany.
- C36 <u>Rezapour, S., Dinh, L.,</u> & **Diesner, J.** (2021): Incorporating the measurement of moral foundations theory in analyzing stances on controversial topics. Proceedings of *32<sup>nd</sup> ACM Conference on Hypertext and Social Media* (HT) (held online) (acceptance rate 32%).
- C35 <u>Ge, Y., Dinh, L., Liu, X., Su, J., Lu, Z., Wang, A., & **Diesner, J.** (2021). BACO: A background knowledge- and content-based framework for citing sentence generation. Proceedings of *Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP) (held online) (acceptance rate 21.3%).</u>*
- C34 <u>Sarol, J., Dinh, L.</u>, & **Diesner, J.** (2021). Variation in situational awareness information due to selection of data source, summarization method, and method implementation. Proceedings of *International AAAI Conference on Web and Social Media* (ICWSM) (held online) (acceptance rate approximately 20%).
- C33 Sarol, J., Dinh, L., Rezapour, R., Chin, C., Yang, P., & **Diesner, J.** (2020). An empirical methodology for detecting and prioritizing needs during crisis events. Findings of ACL: *Conference on Empirical Methods in Natural Language* (EMNLP) (held online). doi: 10.18653/v1/2020.findings-emnlp.366 (acceptance rate 38%).
- C32 <u>Jiang, L., Dinh, L., Rezapour, R.,</u> & **Diesner, J.** (2020). Which groups do you belong to? Sentiment-based PageRank to measure formal and informal influence in social networks. Proceedings of *9th International Conference on Complex Networks and their Applications* (COMPLEX NETWORKS) (held online). doi: 10.1007/978-3-030-65351-4\_50
- C31 <u>Rezapour, R.</u>, Bopp, J., Fiedler, N., Steffen, D., Witt A., & **Diesner, J.** (2020). Beyond citation: corpus-based methods for assessing the impact of research outcomes on society. Proceedings of *12th International Conference on Language Resources and Evaluation* (LREC) (acceptance rate 56%) (held online).
- C30 <u>Jiang, M.</u>, Huang, Q., Wang, X., Zhang, L., Zhang, P., Gan, Z., **Diesner, J.**, Gao, J. (2019). TIGEr: Text-to-Image grounding for image caption evaluation. Proceedings of *Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing* (EMNLP-IJCNLP), Hong Kong. doi: 10.18653/v1/D19-1220 (acceptance rate 23.8%)
- C29 <u>Jiang, M.</u>, Hu, J., Huang. Q., Zhang, L., **Diesner, J.**, Gao, J. (2019). REO-Relevance, Extraness, Omission: A fine-grained evaluation for image captioning. Proceedings of *Conference on Empirical Methods in Natural Language Processing and 9th International*

- *Joint Conference on Natural Language Processing* (EMNLP-IJCNLP), Hong Kong. doi: 10.18653/v1/D19-1156 (acceptance rate 23.8%)
- C28 <u>Rezapour, R.</u>, Ferronato, P., & **Diesner, J.** (2019). How do moral values differ in tweets on social movements? Poster in Proceedings of 22nd ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW), Austin, Texas. doi: 10.1145/3311957.3359496 (acceptance rate 23.8%)
- C27 <u>Addawood, A.</u>, Balakumar, P., **Diesner, J**. (2019). Categorization and comparison of influential Twitter users and sources referenced in tweets for two health-related topics. *iConference*. Washington, DC. doi: 10.1007/978-3-030-15742-5\_60 (acceptance rate 33 %)
- C26 <u>Addawood, A.</u>, Alshamrani, A., Alqahtani, A., **Diesner, J.**, & Broniatowski, D. (2018). Women's driving in Saudi Arabia Analyzing the discussion of a controversial topic on Twitter. Short paper in *International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS), Washington, DC.*
- C25 Abdelzaher, T., Ayanian, N., Basar, T., Diggavi, S., **Diesner, J.**, Ganesan, D., Govindan, R., Jha, S., Lepoint, T., Marlin, B., Nahrstedt, K., Nicol, D., Rajkumar, R., Russell, S., Seshia, S., Sha, F., Shenoy, P., Srivastava, M., Sukhatme, G., Swami, A., Tabuada, P., Towsley, D., Vaidya, N., & Veeravalli, V. (2018). Will distributed computing revolutionize peace? The emergence of battlefield IoT. Proceedings of *38th IEEE International Conference on Distributed Computing (ICDCS)*, Vienna, Austria. doi: 10.1109/ICDCS.2018.00112 acceptance rate 20.6 %)
- C24 <u>Mishra, S.</u>, & **Diesner J**. (2018). Detecting the correlation between sentiment and user-level and text-level meta-data from benchmark corpora. Proceedings of 29th *ACM Conference on Hypertext and Social Media (HT)*, Baltimore, MD. doi: 10.1145/3209542.3209562 (Acceptance rate 27%)
- C23 <u>Rezapour, R.</u>, & **Diesner, J.** (2017). Classification and detection of micro-level impact of issue-focused films based on reviews. Proceedings of *20th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, (pp. 1419-1431), Portland, OR. doi: 10.1145/2998181.2998201 (Acceptance rate 25.5%)
- C22 <u>Rezapour, R.</u>, Wang, L., Abdar, O., & **Diesner, J.** (2017). Identifying the overlap between election result and candidates' ranking based on hashtag-enhanced, lexicon-based sentiment analysis. Proceedings of *IEEE 11th International Conference on Semantic Computing* (*ICSC*), (pp. 93-96), San Diego, CA. doi: 10.1109/ICSC.2017.92 (Acceptance rate 20.2%)
- C21 <u>Jiang, M.</u>, & **Diesner, J.** (2016). Says Who...? Identification of critic versus layman reviews of documentary films. Proceedings of *26th International Conference on Computational Linguistics (COLING)*, (pp. 2122-2132), Osaka, Japan. (Acceptance rate 28%)
- C20 <u>Jiang, M.</u>, & **Diesner, J.** (2016). Issue-focused documentaries versus other films: rating and type prediction based on user-authored reviews. Proceedings of *ACM Hypertext and Social Media*, (pp. 225-230), Halifax, Canada. doi: 10.1145/2914586.2914638 (Acceptance rate 32%)
- C19 **Diesner, J.**, <u>Rezapour, R.</u>, & <u>Jiang, M.</u> (2016). Assessing public awareness of social justice documentary films based on news coverage versus social media. *iConference*. Philadelphia, USA. (Acceptance rate 32%)
- C18 **Diesner, J.**, & Evans, C. (2015). Little bad concerns: Using sentiment analysis to assess structural balance in communication networks. Proceedings of *IEEE/ACM International*

- Conference on Advances in Social Networks Analysis and Mining (ASONAM). Paris, France. doi: 10.1145/2808797.2809403 (Acceptance rate 13%)
- C17 <u>Mishra, S.</u>, & **Diesner J.** (2015). Sentiment analysis with incremental human-in-the-loop learning and lexical resource customization. Proceedings of *ACM Hypertext and Social Media*, (pp. 323-325), Cyprus. doi: 10.1145/2700171.2791022 (Acceptance rate 40%)
- C16 **Diesner, J.**, & <u>Rezapour, R.</u> (2015). Social computing for impact assessment of social change projects. In *International Conference on Social Computing, Behavioral Modeling and Prediction (SBP 2015)*. Washington, DC. doi: 10.1007/978-3-319-16268-3\_4 (Acceptance rate 25%)
- C15 <u>Al-Sabbagh, R.</u>, Girju, R., & **Diesner, J.** (2015). A unified framework to identify and extract uncertainty cues, holders, and scopes in one fell-swoop. In: A. Gelbukh (Ed.) In *International Conference on Intelligent Text Processing and Computational Linguistics*, (pp. 310-334). Springer, Cham. doi: 10.1007/978-3-319-18111-0\_24 (Acceptance rate 28.9%)
- C14 **Diesner, J.**, Evans, C., & Kim, J. (2015). Impact of entity disambiguation errors on social network properties. Proceedings of *International AAAI Conference on Web and Social Media (ICWSM)*, Oxford, UK. (Acceptance rate 20%)
- C13 <u>Mishra, S.</u>, Phelps, K., Agarwal, S., Picco, J., Guo, J., & **Diesner, J.** (2014). Enthusiasm and support: Alternative sentiment classification for social movements on social media. *ACM Conference on Web Science*. Bloomington, IN. doi: 10.1145/2615569.2615667
- C12 Counts, S., De Choudhury, M., **Diesner, J.**, Gilbert, E., Gonzalez, M., Keegan, B., Naaman, M., & Wallach, H. (2014). Computational social science: CSCW in the social media era. Proceedings of *17th ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW)*, (pp. 105-108). Baltimore, MD. doi: 10.1145/2556420.2556849 (Acceptance rate 27%)
- C11 **Diesner, J.**, Pak, S., <u>Kim, J., Soltani, K.</u>, & <u>Aleyasen, A.</u> (2014). Computational assessment of the impact of social justice documentaries. *iConference*, Berlin, Germany. doi: 10.9776/14125 (Acceptance rate 32%)
- C10 <u>Al-Sabbagh, R.</u>, Girju, R., & **Diesner, J.** (2014). 3arif: A corpus of modern standard and Egyptian Arabic tweets annotated for epistemic modality using interactive crowdsourcing. Proceedings of 25th Conference on Computational Linguistics (COLING 2014), (pp. 1521-1532). Dublin, Ireland. (Acceptance rate 14%)
- C9 <u>Al-Sabbagh, R.</u>, **Diesner, J.**, & Girju, R. (2013). Using the semantic-syntactic interface for reliable Arabic modality annotation. Proceedings of *6th International Joint Conference on Natural Language Processing (IJCNLP 2013*), (pp. 410-418). Nagoya, Japan. (Acceptance rate 20%)
- C8 Efron, M., **Diesner, J.**, Organisciak, P., Sherman, G., & Lucic, A. (2012). The University of Illinois' Graduate School of Library and Information Science at TREC 2012. Proceedings of *Text REtrieval Conference (TREC)*. Gaithersburg, ML.
- C7 **Diesner, J.**, & Carley, K.M. (2009). He says, she says. Pat says, Tricia says. How much reference resolution matters for entity extraction, relation extraction, and social network analysis? Proceedings of *IEEE Symposium on Computational Intelligence for Security and Defense Applications (CISDA),* (pp. 1-8). Ottawa, Canada.
- C6 Landwehr, P., **Diesner, J.**, & Carley, K.M. (2009). Words of Warcraft: a relational text analysis of quests in an MMORPG. Proceedings of *Digital Games Research Association Conference (DiGRA)*. London, UK.

- C5 **Diesner, J.**, & Carley, K.M. (2007). Conditional random fields for entity extraction and ontological text coding. *North American Association for Computational Social and Organizational Science Conference (NAACSOS)*, Atlanta, GA. DOI: 10.1007/s10588-008-9029-z \*Best Student Paper Award
- C4 Lecy, J., **Diesner, J.**, & Carley, K.M. (2006). Identification of knowledge groups from the Enron Email corpus. Proceedings of *56th Annual Conference of International Communication Association (ICA)*. Dresden, Germany. (Acceptance rate 11%)
- C3 **Diesner, J.**, Kumaraguru, P., & Carley, K.M. (2005). Mental models of data privacy and security extracted from interviews with Indians. Proceedings of *55th Annual Conference of International Communication Association (ICA)*. New York, NY. (Acceptance rate 45%)
- C2 **Diesner, J.**, Carley, K.M. (2004). Using network text analysis to detect the organizational structure of covert networks. Proceedings of *North American Association for Computational Social and Organizational Science Conference (NAACSOS)*. Pittsburgh, PA.
- C1 Carley, K.M., **Diesner, J.**, Reminga, J., & Tsvetovat, M. (2004). An integrated approach to the collection and analysis of network data. *North American Association for Computational Social and Organizational Science Conference (NAACSOS)*. Pittsburgh, PA.

#### Peer Reviewed Workshops/ Symposiums

- S27 <u>Rezapour, S., Ge, Y., Han, K.,</u> Jeong, R., & **Diesner, J.** (2024). Two-Stage Graph-Augmented Summarization for Scientific Text Documents. In Proceedings of NLP4Science Workshop at *Conference on Empirical Methods in Natural Language (EMNLP)*, Miami, FL, USA.
- S26 You, Z., Lee, H., Mishra, S., Jeoung, S., Mishra, A., Kim, J., & **Diesner**, **J.** (2024). Beyond Binary Gender Labels: Revealing Gender Bias in LLMs through Gender-Neutral Name Predictions. In Proceedings of 5th Workshop on Gender Bias in Natural Language Processing (GBNLP), pages 255-268, at *Annual Conference of the Association for Computational Linguistics (ACL)*, Bangkok, Thailand.
- S25 <u>Jeoung, S.</u>, Kilicoglu, H., & **Diesner, J.** (2023). Examining the Causal Impact of First Names on Language Models: The Case of Social Commonsense Reasoning. In Proceedings of 3<sup>rd</sup> Workshop on Trustworthy Natural Language Processing (TrustNLP) at *Annual Conference of the Association for Computational Linguistics (ACL)*, Toronto, Canada. \*Best Paper Award
- S24 Mishra, S., & Diesner, J. (2023). PyTAIL: An Open Source Tool for Interactive and Incremental Learning of NLP Models with Human in the Loop for Online Data. In Proceedings of 3rd Workshop for Natural Language Processing Open Source Software (NLP-OSS 2023), pages 190–198, Singapore. Association for Computational Linguistics. Prior versions at: Human in the Loop Data Curation (HIL-DC) at Conference on Information and Knowledge Management (CIKM); Interactive learning for natural language processing (InterNLP) workshop at NeurIPS 2022; Human in the Loop Learning (HILL) workshop at NeurIPS 2022; IC2S2 2023.
- S23 <u>Jeoung, S.</u>, & **Diesner, J.** (2022). What changed? Investigating debiasing methods using causal mediation analysis. In Proceedings of 4th Workshop on Gender Bias for Natural Language Processing, at *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), Seattle, USA.*

- S22 <u>Han, K., Rezapour, R.</u>, Nakamura, K.S., Devkota, D., Miller, D.C., & **Diesner, J.** (2020). Domain-knowledge-based classification of biodiversity conservation actions based on project reports. In Proceedings of METRICS 2020: Workshop on Informetrics and Scientometrics Research, at *Association for Information Science & Technology (ASIS&T)* (held online).
- S21 <u>Han, K., Yang, P., Mishra, S.,</u> & **Diesner, J.** (2020). WikiCSSH: Extracting Computer Science Subject Headings from Wikipedia. In Proceedings of Scientific Knowledge Graphs Workshop co-located with 24th International Conference on Theory and Practice of Digital Libraries (TPDL) (held online).
- S20 <u>Jiang, M.</u>, & **Diesner, J.** (2019). A constituency parsing tree based method for relation extraction from abstracts of scholarly publications. In Proceedings of 13<sup>th</sup> Workshop on Graph-Based Methods for Natural Language Processing (TextGraphs-13) at *Conference on Empirical Methods in Natural Language Processing and 9th International Joint Conference on Natural Language Processing* (EMNLP-IJCNLP), Hong Kong. doi: 10.18653/v1/D19-5323
- S19 <u>Mishra, S.</u>, & **Diesner, J.** (2019). Capturing signals of enthusiasm and support towards social issues from Twitter. In Proceedings of 5th International Workshop on Social Media World Sensors (SIdEWayS'19) at *ACM Hypertext*, Hof, Germany. doi: 10.1145/3345645.3351104
- S18 Avram, M. V., Mishra, S., Parulian, N. N., & **Diesner**, **J.** (2019). Adversarial perturbations to manipulate the perception of power and influence in networks. In Proceedings of Workshop on Social Influence at *International Conference on Advances in Social Networks Analysis and Mining* (ASONAM), Vancouver, BC, Canada. doi: 10.1145/3341161.3345026
- S17 Rezapour, R., Shah, S., & **Diesner**, **J.** (2019) Enhancing the measurement of social effects by capturing morality. Proceedings of the 10th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA). *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL*), Minneapolis, MN.
- S16 <u>Mishra, S.</u>, Fegley, B.D., **Diesner, J.**, & Torvik, V. (2018). Expertise as an aspect of author contributions. In METRICS 2018: Workshop on Informetrics and Scientometrics Research, at *Association for Information Science & Technology (ASIS&T)*, Vancouver, Canada. \*Best Student Paper Award
- S15 Witt, A., **Diesner, J.**, Steffen, D., <u>Rezapour, R.</u>, Bopp, J., Fiedler, N., Köller, C., Raster, M., & Wockenfuß, J. (2018). Impact of scientific research beyond academia: An alternative classification schema. Proceedings of 1<sup>st</sup> Workshop on Computational Impact Detection from Text Data, 11<sup>th</sup> Language Resources and Evaluation Conference (LREC 2018), Miyazaki, Japan.
- S14 Rai, A., Minsker, B., **Diesner, J.**, Karahalios, K., & Sun, Y. (2018). Identification of landscape preferences by using social media analysis. Proceedings of the 3rd International Workshop on Social Sensing, *ACM/IEEE International Conference on Internet of Things Design and Implementation 2018 (IoTDI 2018)*, Orlando, FL.
- S13 <u>Addawood, A., Rezapour, R.,</u> Abdar, O., & **Diesner, J.** (2017). Telling apart tweets associated with controversial versus non-controversial topics. Proceedings of 2<sup>nd</sup> Workshop on NLP and Computational Social Science (NLP+CSS), 55th Annual Meeting of the Association for Computational Linguistics (ACL) (pp. 32-41). Vancouver, Canada.

- S12 <u>Mishra, S.</u>, & **Diesner, J.** (2016). Semi-supervised named entity recognition in noisy-text. 2nd Workshop on Noisy User-generated Text (W-NUT), 26th International Conference on Computational Linguistics (COLING), Osaka, Japan.
- S11 **Diesner, J.**, & Chin, C. (2016). Seeing the forest for the trees: Understanding and implementing regulations for the collection and analysis of human centered data. Human-Centered Data Science (HCDS) Workshop, 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2016), San Francisco, CA.
- S10 **Diesner, J.**, & Chin, C. (2016). Gratis, libre, or something else? Regulations and misassumptions related to working with publicly available text data. ETHI-CA<sup>2</sup> Workshop (ETHics in Corpus Collection, Annotation & Application), 10th Language Resources and Evaluation Conference (LREC), Portoroz, Slovenia.
- S9 **Diesner, J.**, & Chin, C. (2015). Usable Ethics: Practical considerations for responsibly conducting research with social trace data. *Workshop: Beyond IRBs: Ethical Review Processes for Big Data Research*, Future of Privacy Forum, Washington DC.
- S8 <u>Kim, J., Aleyasen, A.</u>, Kim, H., Kim, H.M., & **Diesner, J.** (2014). Why name ambiguity resolution matters for scholarly big data research. International Workshop on Challenges & Issues on Scholarly Big Data Discovery and Collaboration, *IEEE BigData*, Washington DC. doi: 10.1109/BigData.2014.7004345.
- S7 **Diesner, J.**, <u>Aleyasen, A.</u>, <u>Mishra, S.</u>, Schecter, A., & Contractor N.S. (2014). Comparison of communication networks built from explicit and implicit data. Computational Approaches to Social Modeling (ChASM 2014), *ACM WebScience Conference*, Bloomington, IN.
- S6 <u>Al-Sabbagh, R.</u>, Girju, R., & **Diesner, J.** (2014). Interactive annotation for event modality in modern standard and Egyptian Arabic tweets. 8th Linguistic Annotation Workshop (LAW VIII 2014), 25th Conference on Computational Linguistics (COLING 2014), (pp. 139-148), Dublin, Ireland.
- S5 <u>Al-Sabbagh, R.</u>, Girju, R., & **Diesner, J.** (2014). Unsupervised construction of a lexicon and a pattern repository of arabic modal multiword expressions. 10th Workshop on Multiword Expressions (MWE 2014), *14th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, Gothenburg, Sweden.
- S4 **Diesner, J.**, & Carley, K.M. (2012). Impact of relation extraction methods from text data on network data and analysis results. Words and Networks Workshop (WON), *ACM Web Science Conference*, Evanston, IL.
- S3 <u>Ahmed, S.</u>, & **Diesner, J.** (2012). Information network analysis to understand the evolution of online social networking sites in the context of India, Pakistan, and Bangladesh. Words and Networks Workshop (WON), *ACM Web Science Conference*, Evanston, IL.
- S2 **Diesner, J.**, & Carley, K.M. (2010). A methodology for integrating network theory and topic modeling and its application to innovation diffusion. Workshop on Finding Synergies Between Texts and Networks, *IEEE International Conference on Social Computing*, (pp. 687-692), Minneapolis, MN. doi: 10.1109/SocialCom.2010.106 \*Best Workshop Paper Award
- S1 **Diesner, J.**, & Carley, K.M. (2005). Exploration of communication networks from the Enron Email corpus. Workshop on Link Analysis, Counterterrorism and Security, *Society for Industrial and Applied Mathematics (SIAM) International Conference on Data Mining*, pg. 3-14, Newport Beach, CA.

#### **Peer Reviewed Extended Abstracts**

- E26 <u>Han, K., Rezapour, R.</u>, Nakamura, K., Devkota, D., Miller, D., & **Diesner, J.** (2022). An Expert-in-the-Loop Method for Domain-Specific Document Categorization Based on Small Annotated Data. Presentation at 8th Annual International Conference on Computational Social Science (IC2S2).
- E25 <u>Dinh, L., Yang, P.,</u> & **Diesner, J.** (2022). From plan to practice: Interorganizational response networks extraction from emergency management plans, situational reports, and tweets about hurricane events. Presentation at 8th Annual International Conference on Computational Social Science (IC2S2).
- E24 Yang, P., Sarol, J., Dinh, L., & **Diesner**, **J.** (2021). Reliable relation extraction for social network construction. Presentation at the *North American Regional Social Networks Conference 2021 (NASN2021)* (held online).
- E23 Aref, S., <u>Dinh, L.</u>, <u>Rezapour, R.</u>, & **Diesner, J.** (2020). Multilevel structural evaluation of signed directed social networks. Extended abstract *Network Science Society Conference* 2020 (NetSci2020) (held online).
- E22 <u>Mishra, S., Han. K., Yang, P., Li, K.,</u> & **Diesner, J.** (2020). Human-in-the-loop construction of a knowledge base for computer science through Wikipedia. Presentation at *6th Annual International Conference on Computational Social Science (IC2S2)* (held online).
- E21 <u>Parulian, N., Lu, T., Mishra, S., Avram, M.</u>, & **Diesner, J.** (2020). Adversarial perturbations to manipulate the perception of power and influence in networks. Poster at *6th Annual International Conference on Computational Social Science (IC2S2)* (held online).
- E20 <u>Rezapour, R., Park, J.,</u> & **Diesner, J.** (2020). Detecting characteristics of cross-cutting language networks on social media. Poster at *6th Annual International Conference on Computational Social Science (IC2S2)* (held online).
- E19 <u>Rezapour, R.</u>, Bopp, J., Fiedler, N., Steffen, D., Witt, A., & **Diesner, J**. (2020). Beyond citation: Corpus-based methods for assessing the impact of research outcomes on society. Poster at *6th Annual International Conference on Computational Social Science (IC2S2)* (held online).
- E18 <u>Dinh, L., Sarol, J.</u>, & **Diesner, J.** (2020). How does situational awareness of emergencies depend on choices about data sources, analysis methods, and implementation of algorithms? Poster at *6th Annual International Conference on Computational Social Science (IC2S2)* (held online).
- E17 <u>Dinh, L.\*</u>, <u>Rezapour, R.\*</u>, <u>Jiang, L.</u>, & **Diesner, J.** (2020). Assessing balance in signed digraphs by combining balance and transitivity. Poster at *6th Annual International Conference on Computational Social Science (IC2S2)* (held online) (\*Equal contribution).
- E16 <u>Mishra, A., Rezapour, R., Park, J.,</u> & **Diesner, J.** (2020). Leveraging topic modeling to enhance the interpretability of stance detection. Poster at *6th Annual International Conference on Computational Social Science (IC2S2)* (held online).
- E15 <u>Mishra, S.</u>, Fegley, B.D., **Diesner, J.**, & Torvik, V.I. (2019). Self-citation is the hallmark of productive authors, of any gender. Presentation at *5th Annual International Conference on Computational Social Science (IC2S2)*, Amsterdam, Netherlands.

- E14 <u>Kim J.</u>, & **Diesner**, **J.** (2018) Biases in bibliometric network data and the measurement of triadic closure. *2nd European Symposium on Societal Challenges in Computational Social Science: Discrimination and Bias*, Cologne, Germany.
- E13 <u>Mishra, S.</u>, Lee, H., <u>Kim, J.</u>, Torvik, V., & **Diesner, J.** (2018). Construction of hierarchical subject headings for computer science and their application to studying temporal trends in scholarly literature. Poster at *4th Annual International Conference on Computational Social Science (IC2S2*), Evanston, IL.
- E12 <u>Dinh, L.</u>, & **Diesner**, **J.**, (2018). Realizing the full potential of (infra-)structures for interagency communication before, during, and after disasters using the example of APAN (All Partners Access Network). Proceedings of 3rd International Workshop on Social Sensing, at *ACM/IEEE International Conference on Internet of Things Design and Implementation* 2018 (IoTDI 2018), Orlando, FL.
- E11 <u>Addawood, A., Rezapour, R., Mishra, S.,</u> Schneider, J., **Diesner, J**. (2017). Developing an information source lexicon, Presented in Workshop on Prioritising Online Content, the 31<sup>st</sup> Annual Conference on Neural Information Processing Systems (NIPS), Long Beach, CA.
- E10 Evans, C., & **Diesner**, J. (2016). Mutual impact and stability of personal ethics and structural balance in a communication network over time. Poster at *2nd Annual International Conference on Computational Social Science (IC2S2)*, Evanston, IL.
- E9 <u>Evans C.</u>, **Diesner**, **J.**, & Blake, C. (2015). Email data analysis as an alternate lens into historical events. Extended abstract *HASTAC*, East Lansing, MI.
- E8 **Diesner, J.**, <u>Rezapour, R.</u>, & Pak, S. (2015). Comparative impact assessment of documentaries and related media. Extended abstract *HASTAC*, East Lansing, MI.
- E7 **Diesner, J.** (2014). ConText: Software for the integrated analysis of text data and network data. Preconference Social and Semantic Networks in Communication Research, Conference of *International Communication Association* (ICA), Seattle, WA.
- E6 **Diesner, J.**, <u>Kim, J.</u>, & <u>Higgins, A.</u> (2014). Socio-semantic network analysis for impact assessment. Abstract *European Social Networks Conference (EUSN)*, Barcelona, Spain.
- E5 **Diesner, J.** (2014). Computational assessment of the impact of social justice documentaries. Extended abstract *HASTAC*, Lima, Peru.
- E4 **Diesner, J.**, <u>Aleyasen, A.</u>, <u>Kim, J.</u>, <u>Mishra, S.</u>, & <u>Soltani, S.</u> (2013). Using socio-semantic network analysis for assessing the impact of documentaries. Extended abstract *WIN* (*Workshop on Information in Networks*), New York, NY.
- E3 **Diesner, J.**, & Carley, K.M. (2010). Extension of supervised machine learning system to extract socio-technical networks about the Sudan from open source text data. *Women in Machine Learning (WiML) Workshop in conjunction with NIPS*, Vancouver, Canada.
- E2 **Diesner, J.**, & Carley, K.M. (2009). WYSIWII What You See Is What It Is: Informed approximation of relational data from texts. *General Online Research (GOR) Conference*, Vienna, Austria.
- E1 Carley, K.M., Frantz, T., & **Diesner, J.** (2006). Social and knowledge networks from large scale databases. *56th Conference of International Communication Association (ICA)*, Dresden, Germany.

#### **Book Chapters**

B10 **Diesner**, **J.**, Chin, C., & Smith, M. A. (2018). Combining online social networks with text analysis. In R. Alhajj & J. Rokne (Eds.), *Encyclopedia of social network analysis and* 

- *mining*. Springer. doi: 10.1007/978-1-4939-7131-2\_328. (Updated version based on **Diesner, J.**, & Smith, M. (2014). Combining online maps with text analysis. In R. Alhajj, J. Rokne (Eds.), *Encyclopedia of social network analysis and mining* (pp. 202-206). Springer. doi: 10.1007/978-1-4614-6170-8 328)
- B9 Gloor, P., & **Diesner, J.** (2018). Semantic social networks. In R. Alhajj, J. Rokne (Eds.), *Encyclopedia of social network analysis and mining*. Springer. doi: 10.1007/978-1-4939-7131-2\_90. (Updated version based on Gloor, P., & **Diesner, J.** (2014). Semantic social networks. In R. Alhajj, J. Rokne (Eds.), *Encyclopedia of social network analysis and mining* (pp. 1654-1659). Springer. doi: 10.1007/978-1-4614-6170-8\_90)
- B8 **Diesner, J.** (2015). Words and networks: How reliable are network data constructed from text data? In E. Bertino, & S.A. Matai (Eds.), *Roles, trust, and reputation in social media knowledge markets* (pp. 81-89). Springer. doi: 10.1007/978-3-319-05467-4\_5
- B7 **Diesner, J.**, Mergel, I., & Carley, K.M. (2011). Network analysis software. In G. Barnett (Eds.), *Encyclopedia of social networks* (pp. 595-598). Sage.
- B6 **Diesner, J.**, & Carley, K.M. (2011). Semantic networks. In G. Barnett (Ed.), *Encyclopedia of social networks* (pp. 767-769). Sage.
- B5 **Diesner, J.**, & Carley, K.M. (2011). Words and networks. In G. Barnett (Ed.), *Encyclopedia of social networks* (pp. 958-961). Sage.
- B4 **Diesner, J.**, & Carley, K.M. (2010). Relation extraction from texts (in German: Extraktion relationaler Daten aus Texten). In C. Stegbauer, R. Häußling (Eds.), *Handbook network research (Handbuch Netzwerkforschung)* (pp. 507 -521). VS Verlag.
- B3 **Diesner, J.**, & Carley, K.M. (2010). Relational methods for analyzing and preventing crime (German: Relationale Verfahren in der Erforschung, Ermittlung und Prävention von Kriminalität). In C. Stegbauer, R. Häußling (Eds.), *Handbook network research (Handbuch Netzwerkforschung)* (pp. 725-738). VS Verlag.
- B2 Weil, S.A., Foster, P., Freeman, J., Carley, K.M., **Diesner, J.**, Frantz, T., Cooke, N. J., Shope, S., & Gorman, J.C. (2008). Converging approaches to automated communications-based assessment of team situation awareness. In M.P. Letsky, N.W. Warner, S.M. Flore, C.A.P. Smith (Eds.), *Macrocognition in teams. Theories and methodologies* (pp. 277–304). Ashgate.
- B1 **Diesner, J.**, & Carley, K.M. (2005). Revealing social structure from texts: Meta-matrix text analysis as a novel method for network text analysis. In V.K. Narayanan, D.J. Armstrong (Eds.), *Causal mapping for information systems and technology research* (pp. 81-108). Idea Group.

# **Technical Reports**

- T7 Lewis, E.T., Carley, K.M., & **Diesner, J.** (2016). *Displaying responsiveness or asserting identity in organizational language: how concept networks capture rhetorical strategies* (Technical Report CMU-ISR-16-111). Pittsburgh, PA: Carnegie Mellon University, School of Computer Science, Institute for Software Research.
- T6 **Diesner, J.** (2012). Uncovering and managing the impact of methodological choices for the computational construction of socio-technical networks from texts (Technical Report CMU-ISR-12-101). Pittsburgh, PA: Carnegie Mellon University, School of Computer Science, Institute for Software Research. (PhD thesis)
- T5 Carley, K.M., **Diesner, J.**, DeReno, M., Columbus, D., Bigrigg, M., Kunkel, F.M. (2006, 2007, 2008, 2009). *AutoMap user's guide* (Technical Reports CMU-ISR-09-114, CMU-

- ISR-08-123, CMU-ISRI-07-114, CMU-ISRI-06-114). Pittsburgh, PA: Carnegie Mellon University, School of Computer Science, Institute for Software Research.
- T4 **Diesner, J.**, & Carley, K. M. (2008). *Looking under the hood of stochastic part of speech taggers* (Technical Report CMU-ISR-08-131R). Pittsburgh, PA: Carnegie Mellon University, School of Computer Science, Institute for Software Research.
- T3 Frantz, T. L., Carley, K. M., & **Diesner, J**. (2005). *An Automated Methodology for Conducting a Social Network Study of a University Faculty* (Technical Report CMU-ISRI-05-106). Pittsburgh, PA: Carnegie Mellon University, School of Computer Science, Institute for Software Research International.
- T2 Tsvetovat, M., **Diesner, J.**, & Carley, K. M. (2004). *NetIntel: A Database for Manipulation of Rich Social Network Data* (Technical Report CMU-ISRI-04-135). Pittsburgh, PA: Carnegie Mellon University, School of Computer Science, Institute for Software Research International.
- T1 **Diesner, J.**, & Carley, K. M. (2004). *AutoMap1.2 Extract, analyze, represent, and compare mental models from texts* (Technical Report CMU-ISRI-04-100). Pittsburgh, PA: Carnegie Mellon University, School of Computer Science, Institute for Software Research International.

### **Selected other Papers and Presentations (light peer review)**

- P12 Holbrook, J., Johnston, K., Sokoloski, J., Sturner, A., Willman, B., Tanweer, A., & **Diesner**, **J.** (2023). Introducing LSST Discovery Alliance Catalyst Fellowship Increasing the Transformational Power of Rubin LSST. XVII Latin American Regional IAU Meeting, Montevideo, Uruguay.
- P11 Mishra, A., Lee, H., Jeoung, S., Torvik, V., & **Diesner**, J. (2023). Expertise diversity and scientific impact. International Conference on the Science of Science and Innovation (ICSSI), Northwestern, IL.
- P10 <u>Lee, H.</u>, Mishra, S., <u>Mishra, A.</u>, Kim, J., & **Diesner, J.** (2023). Are claims of gender bias in scholarly research metrics influenced by inaccurate author name disambiguation and gender prediction? International Conference on the Science of Science and Innovation (ICSSI), Northwestern, IL.
- P9 <u>Chin, C.</u>, & **Diesner, J.** (2023). What went wrong? Examining ethical violations in paper retractions among disciplines. International Conference on the Science of Science and Innovation (ICSSI), Northwestern, IL.
- P8 <u>Han, K., You, J.,</u> Kim, J., & **Diesner, J.** (2023): Leveraging Multiple Funder Information Resources for Funder Name Disambiguation. International Conference on the Science of Science and Innovation (ICSSI), Northwestern, IL.
- P7 Yang, P., Sarol, M.J., Dinh, L., & **Diesner**, **J.** (2020, 2021). Annotation guidelines for entity tagging and semantic role labeling of disaster-related text documents. At *Maritime Risk Symposium* and at *US Department of Homeland Security Centers of Excellence (COE) Summit.* Fairfax, Virginia (held online).
- P6 <u>Jiang, L., Dinh, L., Rezapour, R.</u>, & **Diesner, J.** (2020). Sentiment-based PageRank to infer hierarchical structures in social networks. *Poster at Women in Data Science (WiDS) Conference*, UIUC. \*2nd Best Poster Award.
- P5 <u>Lu, T., Parulian, N., Avram, M., Mishra, S.,</u> & **Diesner, J.** (2020). Adversarial perturbations to manipulate the perception of power and influence in networks. Poster at *Women in Data Science (WiDS) Conference*, UIUC. \***Best Poster Award**.

- P4 <u>Sarol, J., Yang, P., Yang, X.</u>, & Diesner, J. (2020). Best practices in entity detection and relation extraction. Poster at *Women in Data Science (WiDS) Conference*, UIUC.
- P3 Shen, H., & **Diesner**, **J.** (2014). Semantic network analysis of the public discourse on censorship in China. Paper at *National Communication Association 100th Annual Conference*, Chicago, IL.
- P2 Weil, S. A., Carley, K. M., **Diesner, J.**, Freeman, J., & Cooke, N. J. (2006). *Measuring situational awareness through analysis of communications: A preliminary exercise*. APTIMA, Inc., Woburn, MA.
- P1 Lewis, E.T., **Diesner, J.**, & Carley, K.M. (2001). Using automated text analysis to study self-presentation strategies. Proceedings of *Computational Analysis of Social and Organizational Systems Conference (CASOS)*, Pittsburgh, PA.

### **Selected Open-Source Resources**

- R5 <u>Han, K., Yang, P., Mishra, S.,</u> & **Diesner, J.** (2020): WikiCSSH Computer Science Subject Headings from Wikipedia. University of Illinois at Urbana-Champaign. https://doi.org/10.13012/B2IDB-0424970\_V1 [Lexical Resource]
- R4 <u>Rezapour, R.</u>, **Diesner, J.** (2019) Expanded Morality Lexicon. https://doi.org/10.13012/B2IDB-3805242\_V1.1 [Lexical Resource]
- R3 **Diesner, J.**, <u>Aleyasen, A.</u>, Chin, C., <u>Mishra, S.</u>, <u>Soltani, K.</u>, <u>Tao, L.</u> (2015). ConText: Network Construction from Texts [Software]. Available from http://context.ischool.illinois.edu
- R2 NodeXL [Software]. Modules for semantic networks. Available from https://www.smrfoundation.org/nodexl/
- R1 **Diesner, J.**, Mishra, S., Tao, L., & Chin, C. (2015). SAIL: Sentiment Analysis and Incremental Learning [Software]. Available from <a href="https://github.com/uiuc-ischool-scanr/SAIL">https://github.com/uiuc-ischool-scanr/SAIL</a>

#### **KEYNOTES AND INVITED TALKS**

- 1. KONVENS (Conference on Natural Language Processing), Vienna, Austria: "Using Natural Language Processing to Advance Social Science, Responsibly" (2024)
- 2. 5th International Conference on Computational Social Science (IC2S2), Amsterdam, Netherlands: "Responsible Social Computing: Validating Network Data and Theory" (2019)
- 3. Digital Humanities in D-A-CH (DHd), Frankfurt, Germany: "Understanding Social Structure and Behavior through Responsible Mixed-Methods Research: Bias Detection, Theory Validation, and Data Governance" (2019)
- 4. European Computational Social Science Symposium (EuroCSS), Workshop on Reframing Research, Cologne, Germany: "Responsible Social Computing: Validating Network Data and Theory" (2018)
- 5. Annual Conference of the German Association for Network Research (DGNet), Darmstadt, Germany: "Responsible Social Computing" (2018)
- 6. Ethics in a Data-Driven World Symposium, Deloitte Foundation Center for Business Analytics, UIUC: "Practical Ethics and Responsible Computing" (2018)
- 7. Historical Network Research (HNR) Conference, Brno, Czech Republic: "Bias Detection and Theory Validation in Social Network Analysis" (2018)
- 8. Collaborative Research on Extreme Scale Text Analytics (CRESTA) Workshop, UIUC: "Human Centered Computing: Innovating compliantly and transparently" (2018)

- 9. COINs (Collaborative Innovation Networks) Conference, Rome, Italy: "Words and Networks: Using Natural Language Processing to Enhance Graphs and Test Network Theories" (2016)
- 10. GOR (General Online Research) Conference, Dresden, Germany: "Rich and Reliable Signals: Making Responsible Choices for Working with Social Interaction Data" (2016)
- 11. 9th Historical Network Research Symposium, Ruhr University, Bochum, Germany: "Developing practical solutions to real world problems by going from words to networks" (2015)
- 12. NetGlow Conference, Saint-Petersburg, Russia: "Socio-semantic networks" (2014)
- 13. Ditact Conference women's IT studies, University Salzburg, Austria: "Computational Thinking in the playroom, classroom, boardroom" (2014)
- 14. DISC (Daegu International Social Network Conference), Daegu, South Korea: "Words and Networks" (2013)
- 15. Future of Historical Network Research Conference, Hamburg, Germany: "Of micro-scopes and telescopes in the digital humanities and computational social sciences" (2013)

#### **Invited Talks at Conferences**

- 16. Reflective AI in a digital society Conference, Berlin, Germany (held online): "Biases in Social Computing" (2020)
- 17. German Council for Scientific Information Infrastructures, Conference on Challenge Data Quality, Hannover, Germany:" Reliable Signals? Discovering the Impact of the Quality of Social Interaction Data on Social Science Theory, Knowledge, and Practical Applications" (2020)
- 18. Bulletproof Hosting and Botnet Attacks, German Armed Forces Command and Staff College, Hamburg, Germany: "Adversarial perturbations for biasing the perception of individual power and influence in networks" (2019)
- 19. 2nd Conference of the Academy of Sociology on Digital Societies, Konstanz, Germany: "Impact of Human Decision Making on Social Computing Research" (2019)
- 20. Re-Computing Social Sciences Conference, UC Davis: "Re-Computing Social Sciences: What Have We Learned?" (2017)
- 21. Open Science Conference, Berlin, Germany: "Innovating compliantly and transparently road blocks, myths and solutions" (2017)
- 22. Cultural Analytics Symposium, University of Notre Dame: "Impact Assessment of Information Products and Data Provenance" (2017)
- 23. iConference, Workshop on Ethics, Philadelphia, PA: "Usable Ethics" (2016)
- 24. Impact Distribution Lab, BritDoc and Ford Foundation, New York, NY: "Computational Impact Assessment and ConText" (2014)
- 25. The Media Consortium Annual Conference, Chicago, IL: "Impact Assessment and ConText" (2014)
- 26. Purdue University, KredibleNet Workshop: "Words and Networks: How much can we trust Social Network Data built based on Text Data?" (2013)
- 27. University of Maryland, School of Information, Summer Social Webshop: "Words and Networks: Considering the Content of Text Data for Network Analysis" (2012)
- 28. Bulletproof Hosting and Botnet Attacks, German Armed Forces Command and Staff College, Hamburg, Germany: "Network Analysis and Data Mining for Examining Covert Networks" (2011)

- 29. IT Defense Conference, Frankfurt, Germany: "Network Analysis and Text Mining for Detecting and Examining the Structure, Functioning and Evolution of Covert Networks" (2011)
- 30. Bulletproof Hosting and Botnet Attacks, German Armed Forces Command and Staff College, Hamburg, Germany: "Network Analysis for the Domain of Covert Networks" (2010)
- 31. Pennsylvania Association for Gifted Education Conference: "Encouraging the participation of girls and women in computer science: research and action" (2010)
- 32. Bulletproof Hosting and Botnet Attacks Konferenz, NATO Schule, Oberammergau, Germany, 2009: "Natural Language Processing and Network" (2009)
- 33. Exploring under the surface: Yielding higher value from life science transactions Conference (Boston, MA): "Network analytics in life science" (2008)
- 34. Ars Electronica, Linz, Austria, Age of Simulation Conference: "Communication Networks from the Enron Email Corpus" (2006)

#### **Invited Talks at Universities**

- 35. University of Luxembourg: Science of Science lecture series (2022): "Computational Social Science: Bias Detection and Theory Validation"
- 36. Technical University Munich, Germany (2022): "Computational Social Science"
- 37. Technical University Dresden, Germany (2022) "Computational Social Science"
- 38. Ruhr University Bochum, Germany: "Responsible Computing with Human-Centered Data" (2022)
- 39. Univ. of Cologne, Germany: "Responsible Computing with Human-Centered Data" (2021)
- 40. University of Bamberg, Germany: "Computational Social Science and AI" (2021)
- 41. Northwestern University, Technology and Social Behavior Distinguished Speaker Series: "Responsible Computing with Social Data" (2021)
- 42. University of Tübingen, Germany: "Human-Centered Data Science and Computational Social Science" (2020)
- 43. Technical University Berlin, Germany: "Biases in Social Computing" (2020)
- 44. University of Michigan, Ann Arbor: "Responsible Social Computing: Bias Detection and Theory Validation" (2019)
- 45. Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen: "Computational Social Science and Human-Centered Data Science" (2019)
- 46. University of Cologne, Germany: "Understanding Social Structure and Behavior through Mixed-Methods Research: Bias Detection and Theory Validation" (2019)
- 47. Northwestern University, Institute on Complex Systems (NICO): "Responsible Social Computing" (2018)
- 48. University of St. Gallen, Switzerland: "Scaling up the analysis of qualitative data to understand network structure and social behavior" (2018)
- 49. IT University of Copenhagen, Denmark: "Scaling up the analysis of qualitative data to understand social structure and behavior" (2017)
- 50. University of Mannheim, Germany: "Transformative Progress and Critical Challenges with (Human Centered) Data Science" (2016)
- 51. Columbia University, Economic History Seminar: "It's Always About the People. Enron is no Different. Email network analysis" (2014)

- 52. Purdue University, Lafayette: "Computational Impact Assessment of Documentaries and Media" (2014)
- 53. CUNY, Graduate School of Journalism, New York: "Computational Impact Assessment and ConText" (2014)
- 54. Saint-Petersburg State University, Russia: "From Words to Networks: The Importance of Methodological Choices for Extracting Semantic Networks from Texts" (2013)
- 55. Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea: "Words and Networks" (2013)
- 56. Free University, Amsterdam, Netherlands: "From Words to Networks: Relevance of Methodological Choices for Practical Applications" (2013)
- 57. University of California, Berkeley: "From Words to Networks: Relevance of methodological choices for real-world applications" (2013)
- 58. Northwestern University, Science of Networks in Communities Center (SONIC): "From Words to Networks: Relevance of methodological choices for real-world applications" (2013)
- 59. University of Hamburg, Germany: "Mapping and Investigating Covert Networks via Network Analysis and Text Mining" (2012)
- 60. European Research Center for Information Systems, University of Münster, Germany: "Words and Networks: Considering the Substance of Information for Constructing and Analyzing Socio-Technical Networks" (2011)
- 61. Syracuse University, School of Information: "Words and Networks" (2011)
- 62. Dresden University of Technology, Education Sciences Department, Germany: "Words and Networks" (2009)
- 63. University of Applied Sciences, Mittweida, Germany: "Data Collection online: Feasible does not have to mean legal" (2008)
- 64. University of Applied Sciences, Mittweida, Germany: "System Dynamics: Approach to computational modeling and simulation" (2008)

#### **Invited Talks at other Public and Private Institutions**

- 65. Accenture's Women in Data Science speaker series (2022)
- 66. Bayer Pharma/ Crop Science: "Human-Centered Data Science for Crisis Informatics and Impact Assessment" (2020)
- 67. Leibniz Institute for German Language, Mannheim, Germany: "Responsible Social Computing" (2019)
- 68. Critical Infrastructure Resilience Institute (CIRI), webinar: "Supporting practitioners and analysts in making decisions about data analytics to study humanitarian assistance and disaster relief operations" (2019)
- 69. Leibniz Institute for German Language, Mannheim, Germany: "Leveraging Text Data and Machine Learning for Impact Assessment" (2018)
- 70. European Forum Alpbach, Austria: "Computational Problem Solving: Transformative Progress and Key Issues with Human Centered Data Science" (2016)
- 71. Army Corps of Engineers, Champaign, IL: "Rich and Reliable Signals: Making Responsible Choices for Working with Social Interaction Data" (2016)
- 72. KISTI (Korea Institute of Science & Technology Information), Daejeon, South Korea: "Words and Networks" (2013)
- 73. Science Café, Champaign Public Library: "Network Science" (2013)

- 74. Center for Investigate Reporting (CIR), Oakland, CA: "Socio-Semantic Network Analysis for Impact Assessment of Documentaries" (2013)
- 75. Sundance Institute, Creative Producing Summit: "Impact Assessment of (Social Justice) Documentaries" (2013)
- 76. Paley Center for Media, New York, NY: "Impact Assessment and ConText" (2013)
- 77. Dialego corporation, Aachen, Germany (2008)
- 78. vm-people, LLC, Berlin, Germany (2008)
- 79. Deutsche Welle, Berlin, Germany: "Mapping Politics", with P. Ueschner (2008)
- 80. Chemnitz Art Museum, Germany: "Art Network Visualization", with C. Stuetzer (2008)
- 81. FAS.research, LLC, Vienna, Austria (2005)
- 82. Washington Institute for Near East Policy, Washington, D.C.: "Extraction of the Social Structure of Covert Networks from Texts" (2005)

#### **Invited Speaker at Illinois**

- 83. Center for AstroPhysical Surveys (CAPS) seminar series (2023)
- 84. Big Data Summit: "Biases in Computing" (2020)
- 85. Five-year plan launch: "Data Science Education at Illinois" (2019)
- 86. Data Science Day: "Data Governance" (2018)
- 87. Conservation Legacies Planning Workshop (MacArthur Foundation/ UIUC): "Impact Assessment" (2018)
- 88. Inaugural Industry Data Science Summit: "Data Governance" (2018)
- 89. Digital Humanities Symposium: "Bringing Computational Social Science to the Real World: Impact Assessment of Issue-Focused Public Media" (2015)
- 90. Extension Leadership Team: "Developing Practical Solutions to Real World Problems through Social Computing Approaches" (2015)
- 91. Graduate Conference on Computational Social Science: "Human-Centered Data Science at the Nexus of Network Analysis and Text Mining" (2014, 2016)
- 92. CyberGIS Brownbag Series, NCSA: Impact Assessment" (2014)
- 93. Research Park Champaign, IL, Corporate Roundtable: "Data Mining and Knowledge Discovery Methods For Cybersecurity" (2013)
- 94. Digital Humanities Conference (2013)

#### **TEACHING**

**Full courses:** developed syllabi, course structure and tests, administered grades:

### **Technical University of Munich**

- Network Analysis: Fall 2024
- Introduction to Data & Society: Fall 2024
- Responsible Computing (newly developed): Spring 2024, Fall 2024
- Societal Computing (newly developed): Spring 2024

#### University of Illinois at Urbana-Champaign, iSchool:

- Network Analysis (newly developed): Fall 2012-2016, Spring 2014-2015, 2017-2020, Spring 2023
- Responsible Data Science and AI (newly developed): Fall 2021, Spring 2022, Fall 2022
- Data Governance (redesigned): Fall 2021

- Advanced Machine Learning and Social Computing (newly developed): Fall 2018, Spring 2019
- Social Computing (newly developed): Fall 2012, Fall 2013, Spring 2016
- Research Design (redesigned): Fall 2017, Fall 2018
- Doctoral Proseminar (newly developed): Fall 2017, 2019, Spring 2018, 2020
- Digital Humanities (redesigned): Spring 2013-2014
- Information Networks: Spring 2012-2013
- Social Aspects of Information Technologies: Spring 2012
- Data Science and AI in Society: Responsible Computing, Data, and Tech for Everybody (newly developed)

# **Carnegie Mellon University, School of Computer Science:**

- Introduction to Social Network Analysis, Spring 2010

**Short courses:** developed syllabi and course structure, administered grades (in English):

#### University of Illinois at Urbana-Champaign

- "Network Analysis" for "Information Science and Engineering Summer Program" for "Global Education and Training" at UIUC, 2-week course, Summer 2017, 2018 (total: 122 students)

# University of Hamburg, Germany, Graduate School for Business, Economics and Social Science:

- Information and Relation Extraction from Text Data and Network Analysis (September 2011)

# Mittweida University of Applied Sciences, Germany

- Extraction of Relational Data from Texts and Computational Thinking (Summer 2008)
- Extraction of Relational Data from Texts & Applications to Multi-Level Data (Summer 2007)

**Tutorials and Workshops:** developed interdisciplinary training modules (incl. syllabi and teaching material), delivered 50+ hands-on training and lectures:

- "Hands-on advanced machine learning for information extraction from tweets tasks, data, and open source tools", with Shubhanshu Mishra and Rezvaneh Reezapour, at:
  - o Conference on Information and Knowledge Management (CIKM) (2022)
  - o European Conference on Information Retrieval (ECIR) (2022)
  - International Conference on Language Resources and Evaluation (LREC) (2020, 2022)
  - o Web Conference (WWW) (2021)
  - o International Conference on Computational Social Science (IC2S2) (2020)
  - o ACM Hypertext (2019)
- "Hands-on tutorial on analyzing social network data in Jupyter Python: The essentials, signed networks, and network optimization", with Samin Aref, Ly Dinh, and Rezvaneh Rezapour, at:
  - o International Sunbelt Social Network Conference (2022)
  - o International Conference on Computational Social Science (IC2S2) (2021)
  - o Web Conference (WWW) (2021)
  - o Networks (joint Sunbelt & NetSci Conference) (2021)

- "Best Practices for Grant Proposal Development"
  - Association for Information Science and Technology (ASIST) (held online) (2020, 2021)
- "Network analysis and natural language processing"
  - o Ghent University (2022)
  - Getting Started in Digital Humanities workshop, University of Illinois at Chicago (2020)
  - o COINS Conference, Rome, Italy (2016)
  - o Academy of Management, Vancouver, Canada (2015)
  - o University Bremen, Germany (2015)
  - o Ruhr University Bochum, Germany (2015)
  - o University Mainz, Germany (2014)
  - o HASTAC Conference, Peru (2014)
  - o Saint-Petersburg State University, Russia (2013, 2015)
  - o International Sunbelt Social Network Conference (2009, 2010, 2014-16)
  - o Daegu International Social Network Conference (DISC), South Korea (2013, 2014)
  - o International Research Methods Workshop, University Southern Demark and Flensburg, Germany (2012, 2013)
  - o POSTECH, South Korea (2013)
  - o NATO (Foreign Area Specialists Operational Level), Hamburg, Germany (2013)
  - o University of the Federal Armed Forces, Hamburg, Germany (2012)
  - o IT Defense Conference, Munich, Germany (2012)
  - o Columbia University, New York, NY (2011)
  - Humboldt University Berlin, Center for Comparative Analysis of Social Structure (2011)
  - Network Text Analysis and AutoMap training (one day) at Annual CASOS Summer Institute, Carnegie Mellon University, Pittsburgh, PA (2004-2011)
  - Case Western University, Weatherhead School of Management, Cleveland, OH (2010)
  - Department of National Defense, Centre for Security Science, Ottawa, Canada (2009)
  - o International Center for the Study of Terrorism, Penn State University, PA (2009)
  - o General Online Research Conference (GOR) (Germany, Austria) (2008, 2009)
  - World Congress on Social Simulation, George Mason University, Fairfax, VA (2008)
  - North American Association for Computational Social and Organizational Science (NAACSOS) Conference, Emory University, Atlanta, GA (2007)
  - Graduate School of Public and International Affairs, University of Pittsburgh, PA (2005)
  - o Max Planck Institute for the Study of Societies, Cologne, Germany (2005)

#### **Training in Pedagogy and Teaching**

- Completion of "Documentation of Teaching Development Program", Eberly Center for Teaching Excellence, Carnegie Mellon, 06/2009 – 05/2010

#### **Advising**

#### PhD thesis chair at UIUC, iSchool, student graduated:

- Sullam Jeoung: "Examining large language models for safety and robustness through the lens of social science", advisee 08/2020-12/2024, next job: Amazon
- Jenna Kim: "Pre-trained language modeling approaches for author name disambiguation", advisee 08/2021-08/2024, next job: Assistant Professor, College of Communication and Information Sciences, University of Alabama, received Garfield Doctoral Dissertation Fellowship
- Ly Dinh: "Advances to network analysis theories and methods with applications in social, organizational, and crisis settings", advisee 08/2016-08/2022, next job: Assistant Professor (tenure track), School of Information, University of South Florida, **received Berner-Nash Thesis Award**
- Rezvaneh "Shadi" Rezapour: "From user-generated text to insight: context-aware measurement of social impacts and interactions using natural language processing", advisee 08/2015-8/2021, next job: Assistant Professor (tenure track), College of Computing and Informatics, Drexel University
- Garrick Sherman: "Document expansion and language model re-estimation for information retrieval", advisee 08/2017-08/2019, next job: Senior Data Scientist, University of Pennsylvania, received Berner-Nash Thesis Award
- Shubhanshu Mishra: "Information extraction from digital social trace data with applications to social media and scholarly communication data", advisee 08/2013-6/2019, next job: Machine Learning Researcher at Twitter
- Jinseok Kim: "The impact of author name disambiguation on knowledge discovery from large-scale scholarly data", advisee 08/2012-08/2017, next job: Assistant Research Professor (tenure track), University of Michigan, **received Berner-Nash Thesis Award**,

# PhD thesis chair at UIUC, student proposed:

- Apratim Mishra, UIUC, iSchool, proposal passed 9/2024, co-advisee since 08/2019
- Pingjing Yang, UIUC, Informatics, proposal passed 1/2024, advisee since 08/2019-
- Yubin Ge, UIUC, Computer Science, proposal passed 8/2023, advisee since 01/2020
- Kanyao Hao, UIUC, iSchool, proposal passed 6/2023, advisee since 05/2019

#### Current PhD student advisees:

- Jerome You, UIUC, iSchool, 08/2023-
- Jinmo Kim, UIUC, iSchool, 05/2022-
- Chieh-Li Chin, UIUC, Informatics, 08/2021-
- Haejin Lee, UIUC, iSchool, 05/2021- (co-advised)

#### Doctoral thesis committee member:

- Clara Belitz, UIUC, iSchool, proposed 2024
- Michelle Bak, UIUC, iSchool, proposed 2024
- Daniela Delgado Ramos, UIUC, Informatics, proposed 2024
- Wenyi Shang, UIUC, iSchool, graduated 2024
- Kaitlyn Hale-Lopez, UIUC, Industrial & Enterprise Systems Engineering, graduated 2024
- Yuerong Hu, UIUC, iSchool, graduated 2024
- Nikolaus Parulian, UIUC, iSchool, graduated 2023
- Linh Hoang, UIUC, iSchool, graduated 2022
- Wonjun Choi, UIUC, Recreation, Sport & Tourism, graduated 2021

- Kirstin Phelps, UIUC, iSchool, graduated 2020
- Kiumars Soltani, UIUC, Informatics, graduated 2018
- Ankit Rai, UIUC, Informatics, graduated 2018
- Natalie Smith, UIUC, Recreation, Sport and Tourism, graduated 2016
- Natalie Lambert, UIUC, Communication, graduated 2015
- Brent Fegley, UIUC, Informatics, graduated 2015
- Andrew Pilny, UIUC, Communication, graduated 2015
- Rania Al-Sabbagh, UIUC, Linguistics, graduated 2015

#### Former PhD advisees:

- Gibong Hong, UIUC, iSchool, 08/2022- 08/2023 (co-advised)
- Lan Jiang, UIUC, iSchool, 05/2020- 08/2022 (co-advised)
- Jana Marie Perkins, UIUC, iSchool, 08/2021-06/2022
- Angela Fike, UIUC, Informatics, 08/2020-05/2022
- Xiujia Yang, UIUC, Informatics, 01/2022-03/2022
- Aseel Addawood, UIUC, Informatics, 01/2017-12/2018 (chaired thesis proposal committee 12/2017 on "Credibility on Social Media for Controversial Health Issues")
- Craig Willis, UIUC, iSchool, 08/2017-08/2019 (chaired thesis proposal committee 09/2017 on "Temporal Language Models for Information Retrieval")
- Jai Hyun Park, UIUC, iSchool, 08/2019-10/2021
- Janina Sarol, UIUC, Informatics, 08/2018-05/2021
- Mihai Avram, UIUC, iSchool, 07/2018-05/2019
- Ming Jiang, UIUC, iSchool, 08/2014-08/2019
- Craig Evans, UIUC, Informatics, 08/2014-12/2016, 08/2019-08/2021
- Kiumars Soltani, UIUC, Informatics, 08/2012-2015
- Sean Wilner, UIUC, Informatics, 08/2012-12/2013
- Shameem Ahmed, UIUC, iSchool, 8/2012-08/2013

#### Master's theses supervised:

- Amirhossein Aleyasen, UIUC, MS CS, 07/2015, "Entity recognition for multi-modal sociotechnical systems" (continued to UIUC CS PhD program)
- Patric Ueschner, Mittweida University of Applied Sciences, Communication (2007-2008)

#### Post Doc:

- Nick LaLone, Post Doc, UIUC, 08/2018- 07/2019, next employment: Assistant Professor, University of Nebraska at Omaha

Research Practica Advisees (omitting students already listed as advisees):

- Ines Theron, TU Munich, Germany, BS in Computer Science, Spring 2022
- Daniela Delgado Ramos, UIUC, PhD student, Informatics, Spring 2021
- Hannah Christensen, UIUC, MSIM student, Fall 2018
- Siva Narisetti, UIUC, PhD student, Informatics, Spring 2018
- Kyonghoo Lee, UIUC, PhD student, Informatics, Spring 2014
- Mikko Tuomela, UIUC, PhD student, Informatics, Fall 2013

Independent/ Individual Study Advisees (omitting students already listed as advisees):

- Matt Adam-Houser, UIUC, MS in Library and Information Science, Fall 2023
- Jas Chestan Mehta, UIUC, MS in Information Management, Fall 2023

- Xuanxuan Lin, UIUC, MS in Information Management, Fall 2023
- Anisha Jauhari, UIUC, MS in Information Management, Fall 2022
- Brad King, UIUC, MS in Library and Information Science, Fall 2022
- Yunhao Mei, UIUC, MS in Information Management, Fall 2022
- Debdeep Mohanty, UIUC, MS in Information Management, Fall 2022
- Yanvi Soni, UIUC, MS in Information Management, Fall 2022
- Sumeet Kulkarni, UIUC, MS in Information Management, Spring 2022, Fall 2022 (LAS honors student)
- Powell Hung, UIUC, MS in Information Management, Spring 2022
- Jerome You, UIUC, MS in Information Management, Spring 2022, Fall 2022
- Kinjal Shah, UIUC, MS in Information Management, Spring 2022
- Maggie Zhang, UIUC, PhD in Communication and Media, Spring 2022
- Hannah Kang, UIUC, MS in Library and Information Sciences, Fall 2021, Spring 2022
- Yeonhwan (Rae) Jeong, UIUC, MS in Information Management, Fall 2021, Spring 2022
- Asmita Khode, UIUC, MS in Information Management, Fall 2021
- Rohan Charudatt Salvi, UIUC, MS in Information Management, Fall 2021
- Kevin Redline, UIUC, MS in Library and Information Sciences, Spring 2021
- Ko-Mei Lin, UIUC, MS in Information Management, Spring 2021
- Ravindra Harshitha, UIUC, MS in Information Management, Fall 2019
- Nikolaus Parulian, UIUC, PhD in Information Sciences, Spring 2019, Fall 2019
- Ke-Rou Wang, UIUC, MS in Information Management, Spring 2019, Fall 2019
- Ved Prakash Upadhyay, UIUC, MS in Information Management, Fall 2018
- Yingjun Guan, UIUC, MS in Information Management, Spring 2017
- Hong Shen, UIUC, PhD in Communication, Spring 2015
- Angela Stangl, UIUC, MSLIS student, iSchool, Spring 2014
- Andrea Thomer, UIUC, PhD in Information Sciences, Spring 2014
- Kinyetta Nance, UIUC, PhD in Information Sciences, Spring 2014

#### **Undergraduate Research Trainees:**

- Cynthia Choi, UIUC, BS in Information Sciences Data Science, Fall 2023
- Wenbo Huang, UIUC, BS in Information Sciences Data Science, Fall 2023
- Laiba Kahn, UIUC, BS in Information Sciences Data Science, Fall 2023
- Sam Kremerman, UIUC, BS in Information Systems, Fall 2023
- Mari Yamashita, UIUC, BS in Computer Science and Anthropology, Fall 2023
- Bandhuli Maity, UIUC, BS in Computer Science and Philosophy, Fall 2022, Spring 2023
- Hamiz Anjum, UIUC, BS in Mathematics, Fall 2022
- Arpandeep Khatua, UIUC, BS in Computer Engineering, Fall 2022
- Adrian Russo, UIUC, Mathematics and Computer Science, Fall 2022
- Alex Stratton, UIUC, BS in Economics, Fall 2022
- Zijun Yu, UIUC, BS in Statistics, Fall 2022
- Zihan Zhou, UIUC, BS in Liberal Arts and Sciences, Fall 2022
- Sharanya Bhardwaj, UIUC, BS in Information Sciences, Fall 2022
- Siddarth Aananth, UIUC, BS in Information Sciences Data Science, Fall 2022
- Samridhi Verma, UIUC, BS in Information Sciences, Fall 2022

- Stuti Agrawal, UIUC, BS in Computer Science, Spring 2022
- Justin Kim, UIUC, BS in Statistics, Spring 2022
- Neal Xu, UIUC, BS in Economics, Fall 2021
- Zhan Shi, UIUC, BS in Statistics and Econometrics, Fall 2021
- Anjolee Rice, UIUC, BS in Linguistics, Fall 2021
- Jingqi Kou, UIUC, BS in Mathematics and Statistics, Fall 2021
- Max Song, UIUC, BS in Electrical Engineering, Spring 2021
- Namrata Vajrala, UIUC, BS in Computer Science, Spring 2021
- Haejin Lee, UIUC, BS in Mathematics and Statistics, Fall 2020
- Ikenna Akuba, UIUC, BS in Econometrics, Fall 2020
- Angitha Bright, UIUC, BS in Political Science, Fall 2020
- Wanxing Dai, UIUC, BS in Statistics, Fall 2020
- Erin Dowdy, UIUC, BS in Computer Science, Fall 2020
- Minseok Jung, UIUC, BS in Philosophy, Fall 2020
- Farras Rivai, UIUC, BS in Information Science, Fall 2020, Spring 2021, Fall 2021
- Rachel Kim, UIUC, BS in Linguistics (Informatics undergrad researcher), 10/2019-05/2020
- Kehan Li, UIUC, BS in Computer Science and Statistics, 05/2019 05/2020
- Yaoyu Zhang, UIUC, BS in Accountancy, 09/2018-05/2019
- Jessica Schmiederer, UIUC, BS in Actuarial Science and Economics, 09/2017-05/2018
- Tiffany Lu, UIUC, BS in Computer Engineering, 10/2017-05/2018
- Sandra Franco, UIUC, BS in Linguistics, 2014-2015

#### Student research interns:

- Samira Zad (PhD student, Computer Science, Florida International Univ.), Summer 2018 Additional funded Research Lab members:
  - MS students
    - o Tiffany Lu, UIUC, MS Information Management, 01/2019-12/2019, next employment: Software Engineer, Intuit
    - Lan Jiang, UIUC, MS Information Management, 05/2019-05/2020, continued to iSchool PhD program
    - o Saumil Shah, UIUC, MS Information Management, 02/2018-05/2019, next employment: Data Scientist, Walmart
    - o Jenna Jordan, UIUC, MS Library and Information Science, 08/2018-05/2019
    - Harathi Korrapati, UIUC, MS Bioinformatics, 2015-2016, next employment: HPC Storage Engineer, National Center for Supercomputing Applications
    - Rezvaneh Rezapour, UIUC, MS Information Management, 2014-2015, continued to iSchool PhD program
    - Liang Tao, UIUC, MS Agricultural Engineering, 2013-2015, next employment: Bloomberg
    - Amirhossein Aleyasen, UIUC, MS Computer Science, 2013-2015, continued to CS PhD program

#### Personnel Responsibilities:

- Chieh-Li Chin, Research Manager (2018-2021)

### SERVICE AND LEADERSHIP

#### **Board Member and Editor roles**

- Member of Board of Directors: International Network for Social Network Analysis (INSNA) (since 2023)
- Associate Editor:
  - o Science Advances, impact factor 14.14 (since 2020)
  - Associate Editor: Social Network Analysis and Mining (SNAM), impact factor 3.87 (2017-2021)
- Editorial board member:
  - o Computational Communication Research (since 2019)
  - o Editorial board member: Social Network Analysis and Mining (SNAM) (2014-2017)
  - o Editorial board member: Connections (Journal) (since 2012)
- Advisory Board member:
  - o Diachronic Dynamics of Lexical Networks (DYLEN), funded by Austria Academy of Sciences, Austria Centre for Digital Humanities and Cultural Heritage (2019-2021)
  - o GAIN (German Academic International Network) (2014-2018)
  - o Aspen Institute, Advocacy Planning and Evaluation Program (APEP): Media Impact Evaluation Advisory Group (2012)

# **Conference Leadership Roles**

- Area Chair: Computational Social Science of CoNLL (2023)
- Workshop Co-chair: AAAI International Conference on Web and Social Media (ICWSM) (2019)
- Program Committee Co-chair: International Conference on Computational Social Science (IC2S2) (2018)
- Program Committee Co-chair: International Workshop on Social Sensing (SocialSens), in conjunction with 3rd ACM/IEEE International Conference on Internet of Things Design and Implementation (IoTDI) (2018)
- Program Committee Co-chair: IEEE/ ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (2017)

#### **Conference and Workshop Organizing**

- International Sunbelt Social Network Conference: organized session "Words and Networks" (2010-2016, 2018-2022, 2024) with ~ 203 presentations), co-organized with Peter Gloor, Andrea Fronzetti, Oliver Posegga, Francesca Greco.
- Sunbelt Social Network Conference, co-organized session "Impact assessment and network analysis" (2020, 2022, 2024), with Cathleen Stuetzer, Stephanie Gaaw, Rezvaneh Rezapour, Maria Becker.
- International Conference on Language Resources and Evaluation (LREC): Workshop: Computational Impact Detection from Text Data (2018, 2020)
- 2nd European Symposium on Societal Challenges in Computational Social Science (Euro CSS: Bias and Discrimination): Workshop: "Biases in social data and machine learning", Cologne, Germany (2018)
- North American Social Networks Conference (NASN): organized session "Words and Networks" (2018, 2021)

- International Communication Association (ICA): Preconference: "Social and Semantic Networks in Communication Research" (S2NETCOM) (2014, 2015)
- Cybersecurity Symposium Chicago (2012, 2014)
- ACM Web Science Conference: Workshop: "Words and Networks" (WON) (2012)
- Cybersecurity Symposium Pittsburgh (2011)
- IEEE Conference on Social Computing: Workshop: "Synergies between texts and networks" (2010)

# **Conference Program Committee Member (alphabetical order)**

- AAAI International Conference on Web and Social Media (ICWSM) (2014, 2016-2018)
- ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) (2017, 2018)
- ACM Conference on Fairness, Accountability, and Transparency (FAccT) (2022)
- ACM International Conference on Web Search and Data Mining (WSDM) (2023)
- Association for Computational Linguistics (ACL) (2018-2020)
- Asia-Pacific Chapter of the Association for Computational Linguistics and the International Joint Conference on Natural Language Processing (AACL-IJCNLP) (2020)
- ACM HYPERTEXT and Social Media (2012-2013, 2016-2019)
- ACM/ IEEE International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (2011, 2013, 2015-2016, 2018-2022)
- "Big (and Small) Data in Science and Humanities" (BigDS), 2023
- Complex Networks (2016, 2017, 2019-2020)
- Conference of Journal of Information Technology & Politics (JITP) (2011)
- Empirical Methods in Natural Language Processing (EMNLP) (2014, 2018-2020)
- European Chapter of the Association for Computational Linguistics EACL (2021)
- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD) (2013, 2014, 2015)
- General Online Research (GOR) Conference (2009)
- Historical Network Research Conference (HNR) (2020)
- INFORMATIK Conference (2011)
- International Sunbelt Social Network Conference (Sunbelt) 2024
- International Communication Association (ICA) (2022)
- International Conference on Computational Linguistics (COLING) (2018, 2020, 2022)
- International Conference on Computational Social Science (IC2S2) (2017, 2018, 2021)
- International Conference on Collaborative Innovation Networks (COINs) (2013, 2015, 2017)
- International Conference on Networks & Communications (NETCOM) (2015)
- International Conference on Social Computing and its Applications (SCA) (2013)
- International Conference on Social Informatics (SocInfo) (2011-2014, 2016-2020)
- International Conference on Social Media and Society (SMSociety) (2015-2018)
- International Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation Conference (SBP-BRiMS) (2015-2020)
- International World Wide Web Conference (WWW, TheWebConf) (2018-2022)
- Modeling, Analysis and Management of Social Networks and their Applications (SOCNET) (2014)

- Multidisciplinary Social Networks Research Conference (MISNC) (2014)
- North American Social Networks Conference (NASN) (2018)
- Networks in the Global World (NetGloW) (2014, 2016)
- Workshop on Big (and Small) Data in Science and Humanities (BigDS@BTW) (2017, 2019)

#### **Invited Panel Organizer, Panelist, or Participant**

- Panelist: Social Networks and Large Language Models. Sunbelt Social Networks Conference, Edinburgh (2024)
- Panelist: Midwest BigData Hub, Annual Conference: "AI, Data, & Ethics", Cleveland, OH (2018)
- Panelist: Cyber Physical Systems Week (CPS), Social Sensing Workshop: "Understanding the Social in Social Sensing", Pittsburgh, PA (2017)
- Participant: Schloss Dagstuhl workshop "Digital Humanities" (2014)
- Panelist: Sundance Institute, Creative Producing Summit (2013)
- Panelist: Future of Historical Network Research Conference, Hamburg, Germany (2013)
- Panel organizer: General Online Research (GOR) Conference: "Data collection online" (2009)

#### Reviewer, Journals (alphabetical)

- ACM Transactions on Information Systems, ACM Transactions on the Web, ACM Transactions on Speech and Language Processing, Advances in Complex Systems, Asian Journal of Communication, Big Data and Society, Communication Methods and Measures, Computational Communication Research, Digital Scholarship in the Humanities, Field Methods, International Journal of Information Management (IJIM), International Journal of Knowledge-based Organizations, Journal of Artificial Intelligence (Kuenstliche Intelligenz), Journal of Artificial Societies and Social Simulation (JASSS), Journal of the Association for Information Science and Technology (JASIST), Journal of Computer-Mediated Communication (JCMC), Journal of Computational and Mathematical Organization Theory (CMOT), Journal of Information Technology & Politics (JITP), Journal of Social Entrepreneurship, Language Resources and Evaluation, Network Science, Journal of Tax Administration, Procedia - Social and Behavioral Sciences, Social Networks, Social Network Analysis and Mining (SNAM)

#### **Reviewer, Conferences (alphabetical)**

 ACM CHI (2011), IEEE Social Computing (SocComp, 2009, 2010), Americas Conference on Information Systems (AMICS, 2008, 2009), Applications of Social Network Analysis (ASNA, 2011), Business Informatics (2012), General Online Research Conference (GOR) (2010-2011, 2013), Hawaiian International Conference on System Sciences (HICSS, 2012), iConference (2013)

#### **Reviewer, Grant Proposals**

- Israel Science Foundation
- NEH (National Endowment for the Humanities)
- NSERC (Natural Sciences and Engineering Research Council of Canada)
- NSF (National Science Foundation)
- NWO (Dutch Research Council)
- Swiss National Science Foundation
- University of North Carolina System

#### Reviewer, Book Proposals

- Emerald Publishing (2016)

#### **Other Service**

- Chair of Selection Committee: Social Science LSSTC Catalyst Fellowship (2023)
- Member of Steering Committee: Vera Rubin Observatory's Legacy Survey of Space and Time (LSST) Catalyst Fellowship (since 2021)
- Economic and Social Research Council (UKRI ESRC): New and Emerging Forms of Data: Expert working group member (2019)

#### **Membership in Professional Organizations**

- ACM (2004 -), IEEE (2009 -), International Network for Social Network Analysis (INSNA) (2003 -)

### **Educational Outreach and Leadership**

- Summary: providing leadership, service and mentoring to strengthen the voice and representation of underrepresented groups, especially women, in tech:
- Conference Organizing Committee Member: WiDS (Women in Data Science), Urbana-Champaign (2020)
- Grace Hopper student fellowship writing workshop (2020)
- Faculty Sponsor for newly chartered UIUC ACM-W Student Chapter (2019-2020)
- Research project advisor K12 level: Senior Research Project Advisor, University of Illinois Laboratory High School (2014)
- Computational Thinking workshop for "Girls Engaged in Math & Science" (GEMS) summer camp, UIUC (2012, 2013)
- UIUC representative at National Center for Women & Information Technology Academic Alliance (NCWIT) (since 2012)
- Organizer and leader of computer science track at annual CMU high school day (2008-2011)
- Conference Organizing Committee Member: Opportunities for undergrad research in computer science (OurCS), CMU (2011)
- Founder and leader of "Computational Thinking", a program where middle school students learn and practice fundamental principles of computing, Pittsburgh, PA (2010-2011)
- Instructor and speaker at technical training sessions, outreach sessions and career option workshops in computing for K12 and undergrad students and instructors (since 2006)

#### SERVICE AND LEADERSHIP AT UIUC

#### Administrative Service at iSchool

- Chair, Undergraduate Degrees Committee (2022-2024)
- Co-Chair, Data Science Committee (2020/21)
- Chair, Doctoral Studies Committee (2018-20)
- Member, Executive Committee (2015/16, 2016/17, 2022/23)

#### Committee Service at iSchool

- Curriculum Committee (2014/15, 2019/20)
- Doctoral Studies Committee (2012/13, 2013/14, 2020/21, 2021/22)
- Grievance Committee (2021/22)
- Admissions Committee (2012)

#### **Administrative & Committee Service at Illinois**

- Co-chair, Champaign Data Science User Group (2020-) (<a href="https://www.meetup.com/CU-DSUG/">https://www.meetup.com/CU-DSUG/</a>)
- Task Force on Security of COVID-19 Code in Safer Illinois: chair (2020)
- Provost's Data Management Committee: member (2017-2023)
- Data Science Education Task Force: member (2017-2020)
- Data Science Strategy Task Force: member (2017-2018)
- Data Science Steering Committee: member (2018-2019)
- Illinois Data Science Initiative (iDSI): Steering Committee member (2016-2019)
- Urban Informatics for Sustainability and Resilience Center (UrbInSuRe): Co-director of working group in algorithms, data and technology (2014-2015)
- Campus level personnel committees (2013, 2018)

### Chair, Organizer, Panelist at Illinois

- Speaker Series Founder and organizer: "Responsible Data Science and AI", UIUC, Fall 2021, Spring and Fall 2022, and "Knowledge Graphs and Semantic Computing", Spring and Fall 2023 (<a href="https://bit.ly/3DBNXki">https://bit.ly/3DBNXki</a>)
- Panel Organizer: "Creating Meaningful Impact: Opportunities for Women in the Data Science Revolution", WiDS (Women in Data Science) conference, UIUC (2020)
- Panel Organizer: Big Data Summit: "Data Governance and Responsible Computing" (2018)
- Panelist: Law and Data Science Summit: "Law Governing Data", and "Social Media" (2018)
- Panel Organizer: 2nd Data Science Day: "Data Governance" (2018)
- Panelist: Big Data Summit: "Natural Language and Text Processing" (2017, 2018)
- Organizer: Social Media Analytics Summit (2017)
- Organizer: Data Science Day: Session: "Human-Centered Data Science and Social Computing" (2017)
- Panel Chair: Big Data Summit: "Natural Language Processing" (2016)
- Panel Chair: Big Data Summit: "Data Science Team Building" (2015)
- Panelist: Big Data Summit: "Big Data in Social Media" (2013)

#### SERVICE AND LEADERSHIP AT TUM

- Hiring committee chair (2024)
- Panelist:
  - o Responsible Innovation Communication (2024)
  - Data driven social science (2024)