Jana Diesner

Curriculum Vitae

University of Illinois at Urbana-Champaign (UIUC)
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current as of 07/2018

RESEARCH AREAS

- Social Computing, Human-Centered Computing
- Responsible Computing (Regulations, Ethics, Accountability, Transparency)
- Interaction-based and Information-based Systems
- Network Analysis, Natural Language Processing, Machine Learning

EMPLOYMENT

University of Illinois at Urbana-Champaign (UIUC)

- Assistant Professor (tenure track), School of Information Sciences (recommended by our Provost for promotion to Associate Professor with indefinite tenure as of 05/2018, final approval to be carried out by the Board of Trustees)	01/2012-

Additional appointments at UIUC:

- Faculty Affiliate (currently held): Department of Computer Science (CS), Illinois Informatics Institute (I3), Information Trust Institute (ITI), Cline Center for Advanced Social Research	
- CIO Scholar for Information Research & Technology	04/2018-
- Natural Language Processing Expert in Residence for the Champaign Research Park	02/2018-

EDUCATION

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

Ph.D. Societal Computing (previously named Computation, Organizations & Society)	2012
Committee: Kathleen Carley, Carolyn Rose, William Cohen, Jeffrey Johnson	
M.S. Societal Computing (previously named Computation, Organizations & Society)	2007

Dresden University of Technology, Dresden, Germany

M.A. (Magister Artium), **Communication Science**	2003

SELECTED HONORS AND AWARDS (paper awards in Publications section)

- RC Evans Data Analytics Fellowship, awarded by Deloitte Foundation Center for Business Analytics, UIUC	2018
- Linowes Fellowship, awarded by Cline Center for Advanced Social Research, UIUC	2018
- Dori J. Maynard senior fellow, awarded by The Center for Investigative Reporting and The Robert C. Maynard Institute for Journalism Education	2016
- Faculty Fellowship, awarded by National Center for Supercomputing Applications (NCSA)	2015
- Siebel Scholarship, awarded annually for academic excellence and demonstrated leadership to 80 top students from the world's leading graduate schools ($35,000)	2011
- Gelfand Student Award for Educational Outreach and Service Learning, awarded by Carnegie Mellon University	2010
- Socrates-Erasmus Program: scholarship for studies at University of Granada, Spain	1999

Previous Employment and Education

Carnegie Mellon University, School of Computer Science

Software Developer and Research Associate   06/2003-08/2006

Carnegie Mellon University, Institute for Complex Engineered Systems (ICES)

Research Scholar   2000-2002

PUBLICATIONS (student advisees underlined)

Peer Reviewed Journal Papers

J14   Kim, J., & **Diesner, J.** (2017). Over-time measurement of triadic closure in coauthorship networks. *Social Network Analysis and Mining (SNAM), 7*(9). doi:10.1007/s13278-017-0428-3

J13   Kim, J., & **Diesner, J.** (2016). 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. doi: 10.1002/asi.23489 (IF 2.322)

J12   Kim, J., Tao L., Lee, S.H., & **Diesner, J.** (2016). Evolution and structure of scientific co-publishing network in Korea during 1948-2011. *Scientometrics*, *107*(1):27-41. doi:10.1007/s11192-016-1878-5 (IF 2.147)

J11   Kim, J., & **Diesner, J.** (2015). The effect of data pre-processing on understanding the evolution of collaboration networks. *Journal of Informetrics*, *9*(1), 226-236. doi: 10.1016/j.joi.2015.01.002 (IF 2.920)

J10   Kim, J., & **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. doi: 10.1002/asi.23361 (IF 2.322)

J9   Kim, J., 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. doi: 10.1633/JISTaP.2014.2.2.1

J8   Kim, J., & **Diesner, J.** (2014). A network-based approach to coauthorship credit allocation. *Scientometrics, 101*(1), 587-602. doi: 10.1007/s11192-014-1253-3 (IF 2.147)

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. doi: 10.1016/j.poetic.2013.05.004 (IF 1.080)

J6   **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. doi: 10.1007/s10588-012-9126-x (IF 0.769)

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. doi: 10.1109/TSMCC.2011.2110643 (IF 2.35)

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), Special Issue: Networks*, *4*(5), 547-563. doi: 10.1002/sam.10135

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. doi: 10.1007/s10588-008-9029-z (IF 0.769)

J2   Carley, K.M., **Diesner, J.**, Reminga, J., & Tsvetovat, M. (2007). Toward an interoperable dynamic network analysis toolkit. *Decision Support Systems (DSS)*, *Special Issue: Cyberinfrastructure for Homeland Security: Advances in Information Sharing, Data Mining, and Collaboration Systems*, 43(4), 1324-1347. doi: 10.1016/j.dss.2006.04.003

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. doi: 10.1007/s10588-005-5377-0 (IF 0.769)

Invited Papers in Peer Reviewed Journals

IJ3   **Diesner, J.** (2015) Small decisions with big impact on data analytics. *Big Data & Society, special issue on Assumptions of Sociality, 2(2)*. (invited paper) doi: 10.1177/2053951715617185

IJ2   **Diesner, J.**, Kim, J., & 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). (invited paper). doi: 10.3998/3336451.0017.306

IJ1   **Diesner, J.** (2013). From Texts to Networks: Detecting and managing the impact of methodological choices for extracting network data from text data. *Kuenstliche Intelligenz Journal (Artificial Intelligence), 27*(1), 75-78. (invited paper). doi: 10.1007/s13218-012-0225-0

Peer Reviewed Conferences (full papers unless noted otherwise)

C28   Addawood, A., 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 2018)*, Washington, DC.

C27   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., Saukhatme, 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 2018)*, Vienna, Austria.

C26   Mishra, S., & **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'18)*, Baltimore, MD. (Acceptance Rate = 29%)

C25   Rezapour, R., & **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

C24   Rezapour, R., 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

C23   Jiang, M., & **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.

C22   Jiang, M., & **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

C21   **Diesner, J.**, Rezapour, R., & Jiang, M. (2016). Assessing public awareness of social justice documentary films based on news coverage versus social media. *iConference*. Philadelphia, USA. (Acceptance Rate = 32%)

C20   **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%)

C19 Mishra, S., & **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%)

C18 **Diesner, J.**, & Rezapour, R. (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%)

C17 Al-Sabbagh, R., 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%)

C16 **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%)

C15 Mishra, S., 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

C14 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%)

C13 **Diesner, J.**, Pak, S., Kim, J., Soltani, K., & Aleyasen, A. (2014). Computational assessment of the impact of social justice documentaries. *iConference,* Berlin, Germany. doi: 10.9776/14125 (Acceptance Rate = 32%)

C12 Al-Sabbagh, R., 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%)

C11 Al-Sabbagh, R., **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%)

C10 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.

C9 **Diesner, J.**, Tambayong, L., & Carley, K.M. (2010). Mapping socio-cultural networks of Sudan from open-source, large-scale text data. *29th Conference of Sudan Studies Association (SSA)*, Lafayette, IN.

C8 **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.

C7 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.

C6 **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**

C5 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%)

C4 **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%)

C3 **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.

C2 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.

C1 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.

Peer Reviewed Workshops/ Symposiums (full and short papers unless noted otherwise)

W15 Witt, A., Bopp, J., Fiedler, N., Steffen, D., **Diesner, J.**, Rezapour, R., Raster, M., Wockenfuß, J., Köller, C. (2018). Impact of research for the non-academic community: A new classification scheme. Proceedings of the 1st Workshop on Computational Impact Detection from Text Data*, 11th Language Resources and Evaluation Conference (LREC 2018)*, Miyazaki, Japan.

W14 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.

W13 Addawood, A., Rezapour, R., Abdar, O., & **Diesner, J.** (2017). Telling apart tweets associated with controversial versus non-controversial topics. Proceedings of 2nd Workshop on NLP and Computational Social Science (NLP+CSS)*, 55th Annual Meeting of the Association for Computational Linguistics (ACL)* (pp. 32-41). Vancouver, Canada.

W12 Mishra, S., & **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.

W11 **Diesner, J.**, & Chin, C. (2016). Seeing the forest for the trees: Considering applicable types of regulation for the responsible 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.

W10 **Diesner, J.**, & Chin, C. (2016). Gratis, libre, or something else? Regulations and misassumptions related to working with publicly available text data. ETHI-CA² Workshop (ETHics in Corpus Collection, Annotation & Application), *10th Language Resources and Evaluation Conference (LREC)*, Portoroz, Slovenia.

W9 **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.

W8 Kim, J., Aleyasen, A., 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.

W7 **Diesner, J.**, Aleyasen, A., Mishra, S., 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.

W6 Al-Sabbagh, R., 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.

W5 Al-Sabbagh, R., 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.

W4 **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.

W3 Ahmed, S., & **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.

W2 **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**

W1 **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.

Extended Abstracts

E13 Mishra, S., Lee, H., Kim, J., 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 Dinh, L., & **Diesner, J.**, (2018). Realizing the full potential of (infra-)structures for inter-agency 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 Addawood, A., Rezapour, R., Mishra, S., Schneider, J., **Diesner, J**. (2017). Developing an information source lexicon, Presented in Workshop on Prioritising Online Content, the *31st 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 Evans C., **Diesner, J.**, & Blake, C. (2015). Email data analysis as an alternate lens into historical events. Extended abstract *HASTAC*, East Lansing, MI.

E8 **Diesner, J.**, Rezapour, R., & 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.**, Kim, J., & Higgings, A. (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.**, Aleyasen, A., Kim, J., Mishra, S., & Soltani, S. (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:10.1007/978-1-4614-7163-9_328-2. (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   **Diesner, J**. (2015). Words and networks: How reliable are network data constructed from text data? In Bertino E, Matai SA (Eds.), *Roles, trust, and reputation in social media knowledge markets* (pp. 81-89). Springer. doi: 10.1007/978-3-319-05467-4_5

B8   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

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.**, Cooke, N.J., & Shope, S. (2008). Converging approaches to automated communications-based assessment of team situation

awareness. In MP Letsky, NW Warner, SM Flore, CAP 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 VK Narayanan, DJ Armstrong (Eds.), *Causal mapping for information systems and technology research* (pp. 81-108). Idea Group.

Technical Reports

R7 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.

R6 **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)

R5 Carley, K.M., **Diesner, J.**, DeReno, M., Columbus, D., Bigrigg, M., Kunkel, F., . . . Altman, M. (2009, 2008, 2007, 2006). *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.

R4 **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.

R3 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.

R2 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.

R1 **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 (not peer reviewed)

P4 Shen, H., & **Diesner, J.** (2014). *Semantic network analysis of the public discourse on censorship in China.* National Communication Association 100th Annual Conference, Chicago, IL.

P3 Carley, K.M., **Diesner, J.**, McCulloh, I., Martin, M., & Kunkel, F. (2008). *Technologies for distilling and investigating relational data from unstructured text data*. Poster at US Army Research Laboratory (ARL) Advanced Decision Architectures Consortium Meeting, Boulder, CO.

P2 **Diesner, J.** (2008). *Computer science in numbers: Diversity and Employment*. Presentation at Carnegie Mellon University, Pittsburgh, PA.

P1 Weil, S.A., Carley, K.M., **Diesner, J.**, Freeman, J., & Cooke, N.J. (2006). *Measuring situational awareness through analysis of communications: A preliminary exercise*. Proceedings of *Command and Control Research and Technology Symposium*, San Diego, CA.

Presentations at International Sunbelt Social Network Conference (not peer reviewed)

N22 **Diesner, J.**, Jiang, M. & Narisetti, S. (2018). Reliable construction of semantic networks based on text data and measurement of effects in text-based networks.

N21 Evans, C., & **Diesner, J.** (2016). Interplay between personal morals with tie and cluster formation in a corporate communication networks.

N20 **Diesner, J.**, & Pak, S. (2015). Contextualization and validation of networks extracted from text data.

N19 Diesner, J., <u>Kim, J.</u>, & Pak, S. (2014). Socio-semantic network analysis for impact assessment of documentaries.

N18 <u>Kim, J.</u>, & **Diesner, J.** (2014). Structure of scientific collaboration: Considering the order of co-authors for co-authorship networks.

N17 <u>Soltani, K.</u>, & **Diesner, J.** (2014). Improved visualization of multi-mode networks that entail geo-coded entities.

N16 <u>Wilner, S.</u>, <u>Aleyasen, A.</u>, <u>Mishra, S.</u>, <u>Soltani, K.</u>, & **Diesner, J.** (2014). Comparison of network data constructed from text data and textual meta-data.

N15 **Diesner, J.**, & Carley, K.M. (2013). Error propagation and robustness of relation extraction methods.

N14 Kim, J., & **Diesner, J.** (2013). Structural balance in story structures.

N13 **Diesner, J.**, & Carley, K.M. (2012). Impact of methods for relation extraction from text data on network analysis results.

N12 **Diesner, J.**, & Carley, K.M. (2011). Extraction and validation of socio-technical network data about the Sudan from text corpora.

N11 **Diesner, J.**, & Carley, K.M. (2010). Computational integration of network theory and topic modeling for investigating the relationship between socio-technical networks and innovation in the EU.

N10 Mergel, I., **Diesner, J.**, & Carley, K.M. (2010). Attention networks among members of congress.

N9 Stuetzer, C., **Diesner, J.**, Carley, K.M., Koehler, T., & Thiem, G. (2010). Identifying and integrating social roles and structural for the case of collaborative e-learning environments.

N8 **Diesner J.**, Carley, K. M., & Katzmair, H. (2008). He says, she says - Identity and polarization in communication networks of an organization in crisis.

N7 McConville, E., **Diesner, J.**, & Carley, K.M. (2008). AutoMap software demonstration.

N6 **Diesner, J.**, Carley, K. M., Katzmair, H. (2007). The morphology of a breakdown. How the semantics and mechanics of communication networks from an organization in crisis relate.

N5 **Diesner, J.**, Pfeffer, J., & Katzmair, H. (2006). Evaluating scientific classification systems by bottom-up clustering of abstracts using semantic network analysis.

N4 **Diesner, J.**, & Carley, K. M. (2005). Revealing and comparing the organizational structure of covert networks with network text analysis.

N3 Carley, K. M., Frantz, T., **Diesner, J.**, & Davis, G. (2005). Groups: surface and deep structure.

N2 Lewis, E.T., Carley, K. M., & **Diesner, J.** (2003). Concept networks in organizational language: consensus or creativity?

N1 Lewis, E.T., **Diesner, J.**, & Carley, K. M. (2002). Using network analysis to extract and analyze self-presentation strategies in texts.

General Public Presentations

G1 Science Café, Champaign Public Library: Network Science (2013)

KEYNOTE SPEECHES AND INVITED TALKS

Keynote Talks

1. Annual Conference of the German Association for Network Research (DGNet), Darmstadt, Germany, 2018
2. Historical Network Research (HNR) Conference, Brno, Czech Republic, 2018

3. COINs (Collaborative Innovation Networks) Conference, Rome, Italy: Words and Networks: Using Natural Language Processing to Enhance Graphs and Test Network Theories, 2016

4. GOR (General Online Research) Conference, Dresden, Germany: Rich and Reliable Signals: Making Responsible Choices for Working with Social Interaction Data, 2016

5. 9th Historical Network Research Symposium, Ruhr University, Bochum, Germany: Developing practical solutions to real world problems by going from words to networks, 2015

6. NetGlow Conference, Saint-Petersburg, Russia: Socio-semantic networks, 2014

7. Ditact Conference – women's IT studies, University Salzburg, Austria: Computational Thinking in the playroom, classroom, boardroom, 2014

8. DISC (Daegu International Social Network Conference), Daegu, South Korea: Words and Networks, 2013

9. Future of Historical Network Research Conference, Hamburg, Germany: Of micro-scopes and telescopes in the digital humanities and computational social sciences, 2013

On "Research at the Nexus of Network Analysis and Natural Language Processing"

10. Re-Computing Social Sciences Conference, UC Davis, 2017
11. European Forum Alpbach, Austria, 2016
12. KISTI (Korea Institute of Science & Technology Information), Daejeon, South Korea, 2013
13. KAIST (Korea Advanced Institute of Science and Technology), Daejeon, South Korea, 2013
14. Free University, Amsterdam, Netherlands, 2013
15. Saint-Petersburg State University, Russia, 2013
16. Purdue University, KredibleNet Workshop, 2013
17. University of California, Berkeley, 2013
18. Northwestern University, Science of Networks in Communities Center (SONIC), 2013
19. University of Maryland, School of Information, Summer Social Webshop, 2012
20. European Research Center for Information Systems, University of Münster, Germany, 2011
21. Syracuse University, School of Information, 2011
22. Dresden University of Technology, Education Sciences Department, Germany, 2009
23. Dialego corporation, Aachen, Germany, 2008
24. vm-people, LLC, Berlin, Germany, 2008
25. Deutsche Welle, Berlin, Germany: Mapping Politics, with P. Ueschner, 2008
26. Chemnitz Art Museum, Germany: Art Network Visualization, with C. Stuetzer, 2008
27. Ars Electronica, Linz, Austria, Age of Simulation Conference, 2006
28. FAS.research, LLC, Vienna, Austria, 2005

On "Mapping and Investigating Covert Networks"

29. Army Corps of Engineers, Champaign, IL, 2016
30. Columbia University, Economic History Seminar, NY, 2014
31. Research Park Champaign, IL, Corporate Roundtable, 2013
32. University of Hamburg, Germany, 2012
33. German Armed Forces Command and Staff College, Hamburg, Germany, 2010, 2011
34. IT Defense Conference, Frankfurt, Germany, 2011
35. NATO School, Oberammergau, Germany, 2009
36. Washington Institute for Near East Policy, Washington, D.C., 2005

On "Impact Assessment"

37. Cultural Analytics 2017 Symposium, University of Notre Dame, 2017

38. Purdue University, Lafayette, IN, 2014
39. CUNY, Graduate School of Journalism, New York, NY, 2014
40. Impact Distribution Lab, BritDoc and Ford Foundation, New York, NY, 2014
41. The Media Consortium Annual Conference, Chicago, IL, 2014
42. Center for Investigate Reporting (CIR), Oakland, CA, 2013
43. Paley Center for Media, New York, NY, 2013
44. Sundance Institute, Creative Producing Summit, 2013

On "Open Science, Regulations, and Compliance"

45. Open Science Conference, Berlin, Germany, 2017
46. "Usable Ethics" iConference, Workshop on Ethics, Philadelphia, PA, 2016
47. University of Applied Sciences, Mittweida, Germany, Complexity Workshop: Data Collection online: Feasible does not have to mean legal, 2008

On other topics

48. Pennsylvania Association for Gifted Education Conference: Encouraging the participation of girls and women in computer science: research and action, 2010
49. Exploring under the surface: Yielding higher value from life science transactions Conference (Boston, MA): Network analytics in life science, 2008
50. University of Applied Sciences, Mittweida, Germany, Complexity Workshop: System Dynamics: Approach to computational modeling and simulation, 2008

FUNDING

1. **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
- Agency: Department of Homeland Security and Critical Infrastructure Resilience Institute
- Period: 12/2017-06/2018
- Total: $100,000

2. **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, Nitin Vaidya, Venugopal Veeravalli, Jana Diesner
- Agency: U.S. Army Research Laboratory (ARL)
- Period: 10/2017-09/2022
- Total: $25,600,000 (Diesner: about $415,000)

3. **TextTransfer – Corpus-based detection of secondary use of scientific publications**
- Principal Investigator: Dr. Andreas Witt (IDS), R&D PI: Jana Diesner
- Agency: Federal Ministry of Education and Research (Germany) and Institute for German Language (IDS) (Germany)
- Period: 05/2017-11/2018
- Total: $597,844 (Diesner: $109,936)

4. **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
- Agency: Midwest Big Data Hub & Computing Community Consortium
- Period: 2016
- Total: $5,000

5. **Computational impact assessment of issue focused media and information products**
- Principal Investigator: Jana Diesner
- Agency: FORD Foundation, grant #0155-0370
- Period: 04/2015-09/2016
- Total: $150,000

6. **Computational impact assessment of social justice documentaries and media**
- Principal Investigator: Jana Diesner
- Agency: FORD Foundation, grant #0145-0558
- Period: 04/2014-09/2015
- Total: $150,000

7. **Impact assessment of social justice documentaries**
- Principal Investigator: Jana Diesner
- Agency: FORD Foundation, grant #0125-6162
- Period: 11/2012-02/2014
- Total: $150,000

8. **Predictive modeling for detection and classification of medical entities and facts**
- Principal Investigator: Jana Diesner
- Agency: IMO (Intelligent Medical Objects), grant #2014-04797-00-00
- Period: 05/2015-05/2017
- Total: $300,000

9. **Computational expansion of controlled medical vocabulary and identification of organizational social media footprint**
- Principal Investigator: Jana Diesner
- Agency: IMO (Intelligent Medical Objects), grant #2013-05716-00-00
- Period: 06/2013 - 12/2013
- Total: $38,900

10. **Predictive modeling for impact assessment**
- Principal Investigator: Jana Diesner
- Agency: NCSA (National Center for Supercomputing Applications) Faculty Fellowship
- Period: 08/2015-07/2016
- Total: $23,000

11. **Analysis of academic activity patterns in academic literature**
- Principal Investigator: Jana Diesner; Co-PI: Vetle Torvik
- Agency: KISTI (Korea Institute of Science and Technology Information)
- Period: 07/2017-11/2017
- Total: $25,000

12. **Selection and Influence: Identification of link formation mechanisms in scientific collaboration networks**
- Principal Investigator: Jana Diesner
- Agency: KISTI (Korea Institute of Science and Technology Information)
- Period: 05/2016-11/2016
- Total: $33,000

13. **Modeling of nation-scale scientific collaboration networks and impact of entity disambiguation on big network data**
- Principal Investigator: Jana Diesner
- Agency: KISTI (Korea Institute of Science and Technology Information), grant C3240
- Period: 04/2015-09/2015
- Total: $50,000

14. **Research on the authority data based scientist network analysis modeling**
- Principal Investigator: Jana Diesner
- Agency: KISTI (Korea Institute of Science and Technology Information), grant P14033
- Period: 03/2014-09/2014
- Total: $47,475

15. **Socio-technical data analytics for improving impact and impact assessment**
- Principal Investigator: Jana Diesner
- Agency: Anheuser Busch, grant #2014-04922
- Period: 05/2014 – 09/2015
- Total: $125,000

16. **Evaluation of the performance and usability of the ConText technology**
- Principal Investigator: Jana Diesner
- Agency: Center for Investigative Reporting
- Period: 2013-2014
- Total: $7,500

17. **Developing an entity extractor for the scalable construction of semantically rich socio-technical network data**
- Principal Investigator: Jana Diesner, Co-PI: Brent Fegley
- Agency: 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%

18. **Other Gifts and Contracts**
- Principal Investigator: Jana Diesner
- Agency: Connected Action, Peace is Loud, Shoot First, Inc., Picture Motion, VM People, Robert Stone Productions
- Period: 2013-2016
- Total: $45,000

TEACHING

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

University of Illinois at Urbana-Champaign, iSchool:
- Advanced Topics in Machine Learning (newly developed): Fall 2018
- Network Analysis (newly developed): Fall 2012-16, Spring 2014, 2015, 2017, 2018

- Social Computing (newly developed): Fall 2012, 2013, Spring 2016
- Digital Humanities (redesigned): Spring 2013, 2014
- Research Design (redesigned): Fall 2017, Fall 2018
- Information Networks: Spring 2012, 2013
- Social Aspects of Information Technologies: Spring 2012
- Doctoral Proseminar (Fall 2017, Spring 2017)

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 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

Additional teaching:

University of Illinois at Urbana-Champaign
- "Network Analysis" for the "Information Science and Engineering Summer Program" organized by "Global Education and Training" at UIUC (2 sections, 85 participants), Summer 2017, Summer 2018

Workshops and tutorials: developed interdisciplinary training module (incl. syllabi and teaching material) on Network Analysis, Natural Language Processing and Computational Thinking, delivered hands-on training and lectures:

- COINS Conference, Rome, Italy, 2016
- Academy of Management, Vancouver, Canada, 2015
- University Bremen, Germany, 2015
- Ruhr University Bochum, Germany, 2015
- University Mainz, Germany, 2014
- HASTAC Conference, Peru, 2014
- Saint-Petersburg State University, Russia, 2013, 2015
- International Sunbelt Social Network Conference, 2009, 2010, 2014-16
- Daegu International Social Network Conference (DISC), South Korea, 2013, 2014
- International Research Methods Workshop, University Southern Demark and Flensburg, Germany, 2012, 2013
- POSTECH, South Korea, 2013
- NATO (Foreign Area Specialists – Operational Level), Hamburg, Germany, 2013
- University of the Federal Armed Forces, Hamburg, Germany, 2012
- IT Defense Conference, Munich, Germany, 2012
- 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

- International Center for the Study of Terrorism, Penn State University, PA, 2009
- General Online Research Conference (GOR) (Germany, Austria), 2008-09
- 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
- Max Planck Institute for the Study of Societies, Cologne, Germany, with L. Krempel, 2005

Guest Lectures

- UIUC/ GSLIS: "Social Media Analytics", course: Digital Media Ethics, taught by Lorrie Kendall, 2014
- UIUC/ GSLIS: "Social Media Analytics", course: Sociotechnical Data Analytics, taught by Cathy Blake, 2014
- UIUC/ GSLIS: "Teaching programming with Storytelling Alice" course: Storytelling, taught by Kate McDowell, 2012, 2013
- Carnegie Mellon: "Network Visualization", course: Information Visualization (60-719), taught by Ben Fry and Golan Levin, 2007

Training in Pedagogy and Teaching

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

Student Advising

PhD thesis chair, student graduated:
- Jinseok Kim, UIUC, iSchool "The impact of author name disambiguation on knowledge discovery from large-scale scholarly data" (Assistant Research Professor, University of Michigan, Ann Arbor), 08/2012-08/2017

PhD thesis chair, student proposed (ABD):
- Craig Willis, UIUC, iSchool, "Temporal Language Models for Information Retrieval" (proposed: 09/2017), 08/2017-
- Garrick Sherman, UIUC, iSchool, "Document expansion and language model re-estimation for information retrieval" (proposed: 12/2017), 08/2017-
- Aseel Addawood, UIUC, Informatics, "Information Credibility on Social Media for Controversial Health Issues" (proposed: 12/2017), 01/2017-
- Shubhanshu Mishra, UIUC, iSchool "Information extraction from digital social trace data – applications in social media and scholarly data analysis" (proposed: 12/2017), 08/2013-

PhD student advisees, pre-proposal stage:
- Mihai Avram, iSchool, 07/2018-
- Ly Dinh, UIUC, iSchool, 08/2016-
- Rezvaneh Rezapour, UIUC, iSchool, 08/2015-
- Ming Jiang, UIUC, iSchool, 08/2014-

Former PhD advisees:
- Craig Evans, UIUC, Informatics, 08/2014-12/2016
- Sean Wilner, UIUC, Informatics, 08/2012-12/2013
- Kiumars Soltani, UIUC, Informatics, 08/2012-2015
- Shameem Ahmed, UIUC, iSchool, 08/2012-08/2013

Doctoral thesis committee member:
- Kiumars Soltani, UIUC, Informatics (proposed), 2018

- Ankit Rai, UIUC, Informatics (first employment: private sector), 2018
- Kirstin Phelps, UIUC, iSchool (proposed), 2016
- Natalie Smith, UIUC, Recreation, Sport and Tourism (first employment: Assistant Professor, East Tennessee State University), 2016
- Natalie Lambert, UIUC, Communication (first employment: Assistant Professor, Purdue), 2015
- Brent Fegley, UIUC, Informatics (first employment: private sector), 2015
- Andrew Pilny, UIUC, Communication (first employment: Assistant Professor, University of Kentucky), 2015
- Rania Al-Sabbagh, UIUC, Linguistics (first employment: Assistant Professor, Ain Shams University, Cairo, Egypt), 2015

Master's theses supervised
- Amirhossein Aleyasen, MS, UIUC, Computer Science, 07/2015, "Entity recognition for multi-modal socio-technical systems" (continued to UIUC CS PhD program)
- Co-advised: Patric Ueschner, Communication, Mittweida Univ. of Applied Sciences (2007-2008)

Advisor for Research Practica (omitting advisees listed under Master and PhD student advisees, and doctoral thesis committee member):
- Siva Narisetti, PhD student, Informatics, Spring 2018
- Kyonghoo Lee, PhD student, Informatics, Spring 2014
- Mikko Tuomela, PhD student, Informatics, Fall 2013

Research Lab members:
- Saumil Shah, UIUC, MSIM, iSchool, 2018-
- Harathi Korrapati, UIUC, Bioinformatics (first employment: NCSA, UIUC), 2015-2016
- Rezvaneh Rezapour, UIUC, MSIM, iSchool (continued to iSchool PhD program), 2014-2015
- Liang Tao, UIUC, Agricultural Engineering (first employment: Bloomberg), 2013-2015
- Amirhossein Aleyasen, UIUC, Computer Science (with thesis, continued to CS PhD program), 2013-2015

Advisor for Independent Studies (omitting advisees listed under Master and PhD student advisees, and doctoral thesis committee member):
- Yingjun Guan, MSIM student, iSchool, Spring 2017
- Hong Shen, PhD student, Communication, Spring 2015
- Angela Stangl, MS student, iSchool, Spring 2014
- Andrea Thomer, PhD student, iSchool, Spring 2014
- Kinyetta Nance, PhD student, iSchool, Spring 2014

Advisor for REUs (research experience for undergraduates):
- Jessica R Schmiederer, Actuarial Science and Economics (Informatics undergrad research project student), 09/2017-
- Tiffany Lu, Computer Engineering (Informatics undergrad research project student), 09/2017-05/2018
- Sandra Franco, UIUC, Linguistics (Informatics undergrad research project student) (graduated 2016, continued to iSchool MSIM program), 2014-2015

Summer and academic year student research interns:
- Samira Zad (PhD student, Computer Science, Florida International University), Summer 2018

SERVICE AND LEADERSHIP

Editorial Board Member
- Associate Editor: Social Network Analysis and Mining (SNAM) (since 07/2017)

- Editorial board member: Social Network Analysis and Mining (SNAM) (2014-07/2017)
- Editorial board member: Connections (Journal) (since 2012)

Program Committee Chair or Co-Chair
- PC Co-chair for International Conference on Computational Social Science (IC2S2) (2018)
- PC Co-chair for International Workshop on Social Sensing (SocialSens), in conjunction with the 3rd ACM/IEEE International Conference on Internet of Things Design and Implementation (IoTDI) (2018)
- PC Co-chair for the 1st Workshop on Computational Impact Detection from Text Data at the Language Resources and Evaluation Conference (LREC) (2018)
- PC Co-chair for IEEE/ ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (2017)

Conference Program Committee Member (alphabetical order)
- ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW) (2017, 2018)
- Association for Computational Linguistics (ACL) (2018)
- ACM HYPERTEXT and Social Media (2012, 2013, 2016, 2017, 2018)
- ACM/ IEEE International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (2011, 2013, 2015, 2016)
- Complex Networks (2016, 2017)
- Conference of Journal of Information Technology & Politics (JITP) (2011)
- Conference on Empirical Methods in Natural Language Processing (EMNLP) (2018)
- Empirical Methods in Natural Language Processing (EMNLP) Workshop on Modeling Large Scale Social Interaction in Massively Open Online Courses (2014)
- 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)
- INFORMATIK Conference (2011)
- International Conference on Computational Linguistics (COLING) (2018)
- International Conference on Computational Social Science (IC2S2) (2017)
- International AAAI Conference on Web and Social Media (ICWSM) (2014, 2016, 2017, 2018)
- 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, 2012, 2013, 2014, 2016, 2017, 2018)
- International Conference on Social Media and Society (SMSociety) (2015, 2016, 2017)
- International Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation Conference (SBP-BRiMS) (2015, 2016, 2017, 2018)
- International World Wide Web Conference (WWW) (2018)
- Modeling, Analysis and Management of Social Networks and their Applications (SOCNET) (2014)
- Multidisciplinary Social Networks Research Conference (MISNC) (2014)
- Networks in the Global World (NetGloW) (2014, 2016)

Conference Organizing Committee Member
- Opportunities for undergrad research in computer science (OurCS) conference, CMU (2011)

Organizer
- Track at International Sunbelt Social Network Conference: Words and Networks (2010-2016, 2018)

- Preconference at Conference of International Communication Association (ICA) "Social and Semantic Networks in Communication Research" (2014-15)
- Cybersecurity Symposium Chicago (2012, 2014)
- Workshop at ACM Web Science Conference: Words and Networks (WON) (2012)
- Cybersecurity Symposium Pittsburgh (2011)
- Workshop at IEEE Conference on Social Computing: Synergies between texts and networks (2010)

Advisory Board Memberships
- GAIN (German Academic International Network) (2014-2018)
- Aspen Institute, Advocacy Planning and Evaluation Program (APEP): Media Impact Evaluation Advisory Group (2012)

Panel organizer/chair
- General Online Research (GOR) Conference: "Data collection online" (2009)

Invited Panelist
- Cyber Physical Systems Week (CPS), Social Sensing Workshop, Panel: "Understanding the Social in Social Sensing", Pittsburgh, PA (2017)
- Sundance Institute, Creative Producing Summit (2013)
- Future of Historical Network Research Conference, Hamburg, Germany (2013)

Reviewer, Journals (alphabetical)
- ACM Transactions on Information Systems, ACM Transactions of 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, 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, 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
- NSF (2014, 2018)
- NSERC (Natural Sciences and Engineering Research Council of Canada) (2016)
- NWO (Dutch Research Council) (2015)
- NEH (National Endowment for the Humanities) (2013)

Reviewer, Book Proposals
- Emerald Publishing (2016)

Membership in Professional Organizations
- ACM (2004 -), IEEE (2009 -), National Center for Women & Information Technology (NCWIT) (2012 -), International Network for Social Network Analysis (INSNA) (2003 -)

Educational Outreach and Leadership

Working to encourage and train K12 school students, especially women and minorities, to pursue careers in computing:

- Advisor K12 level: Senior Research Project Advisor, Max Zhaoyu Li, University of Illinois Laboratory High School (2014)
- Taught Computational Thinking workshop at Girls Engaged in Math & Science (GEMS) summer camp, UIUC, NCSA (2012, 2013)
- Founder and leader of "Computational Thinking", a program where middle school students learn and practice fundamental principles of computing, Pittsburgh, PA (2010-2011)
- Organizer and leader of computer science track at annual CMU high school day (2008-2011)
- Instructor and speaker at technical training sessions, outreach sessions and career option workshops in computing for K12 and undergrad students and instructors

SERVICE AND LEADERSHIP at UIUC

Administrative Service at iSchool
- PhD Program Director (since 02/2017)
- Chair of Doctoral Studies Committee (2017/18, 2018/19)
- Executive Committee, elected member (2015/16, 2016/17)

Committee Service at iSchool (appointed by Dean, Associate Deans, Executive Committee)
- Doctoral Studies Committee (2012/13, 2013/14)
- Curriculum Committee (2014/15)
- Admissions Committee (Spring 2012)

Selected other Service at iSchool
- Established 3 year MOU (Memorandum of Understanding) with KISTI (Korea Institute of Science and Technology Information) (2015)
- Hosting:
  - Nominated and hosted iSchool 2016-2017 research fellow Andreas Witt, Professor, University Cologne, Germany
  - Nominated and hosted iSchool 2013-2014 research fellow Susie Pak, Assoc. Professor, St John's College, New York
  - Research visitors and speakers: Thomas Zorbach (VM people, Germany, 2013), Seok-Hyuong Lee (Korea Institute of Science and Technology Information (KISTI, 2014), Marten Duering (University of North Carolina at Chapel Hill, 2014), Scott Althaus (UIUC), 2016

Selected Service at UIUC
- Illinois Data Science Initiative (iDSI): Steering Committee member (since 2017)
- Illinois Data Science Initiative Strategic Planning task force: member (2017)
- Provost's Data Management Committee: member (since 2017)
- Task Force on Data Science Education: member (2017)
- Urban Informatics for Sustainability and Resilience Center (UrbInSuRe): Co-director of working group in algorithms, data and technology (2014-2015)
- Personnel Committee (2013, 2018)

Event, Session or Panel Organizer/Chair at UIUC
- Social Media Summit, NCSA (2017)
- Data Science Day, UIUC: "Human-Centered Data Science and Social Computing" session (2017)
- Big Data Summit, Champaign, IL: "Natural Language Processing" (2016)
- Big Data Summit, Champaign, IL: "Data Science Team Building Panel" (2015)

Invited Panelist at UIUC

- Big Data Summit, Champaign, IL: "Natural Language and Text Processing" (2017)
- Big Data Summit, Champaign, IL: "Big Data in Social Media" (2013)

Invited Speaker at UIUC
- Inaugural Industry Data Science Summit: "Data Governance" (2018)
- Graduate Conference on Computational Social Science (2014, 2016)
- Digital Humanities Symposium (2015)
- CyberGIS Brownbag Series, NCSA (2014)
- Digital Humanities Conference (2013)

Invited Keynote-Speaker at UIUC
- Collaborative Research on Extreme Scale Text Analytics (CRESTA) Workshop, UIUC: Human Centered Computing: Innovating compliantly and transparently (2018)