

Jana Diesner

Curriculum Vitae

University of Illinois at Urbana-Champaign (UIUC)
School of Information Sciences/ The iSchool@Illinois
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Citizenship: German, USA Permanent Resident
current as of 02/2017

Research Interests

- Human-centered data science, computational social science
 - Network analysis, Natural language processing, machine learning
 - Regulations and ethics for online and human-centered data
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Employment

University of Illinois at Urbana-Champaign (UIUC)

- Assistant Professor (tenure track), School of Information Science 01/2012-
 - Faculty Affiliate: Department of Computer Science (CS), Information Trust Institute (ITI), Illinois Informatics Institute (I3), Cline Center for Democracy 2012-
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Education

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

Ph.D. Societal Computing (previously named Computation, Organizations & Society) 2012

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

- Dori J. Maynard senior fellow, awarded by The Center for Investigative Reporting and The Robert C. Maynard Institute for Journalism Education 2016
 - National Center for Supercomputing Applications (NCSA): Faculty Fellowship 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
 - Consortium for the Science of Sociotechnical Systems (CSST): Scholarship for summer research institute 2011
 - Carnegie Mellon: Gelfand student award for educational outreach and service learning 2010
 - IBM: Scholarship for Grace Hopper Conference of Women in Computing 2008
 - Socrates-Erasmus Program: scholarship for studies at Univ. of Granada, Spain 1999
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Prior 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

Funding

- PI: Midwest Big Data Hub & Computing Community Consortium (NSF sub-award), 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 \$5,000
- PI: FORD Foundation, #0155-0370: Computational impact assessment of issue focused media and information products (04/2015-03/2016) \$150,000
- PI: FORD Foundation, #0145-0558: Computational impact assessment of social \$150,000

justice documentaries (04/2014-03/2015)	
- PI: FORD Foundation, #0125-6162: Computational impact assessment of social justice documentaries (11/2012-10/ 2013)	\$150,000
- PI: IMO (Intelligent Medical Objects), #2014-04797-00-00: Predictive modeling for detection and classification of medical entities and facts (05/2015-04/2017)	\$300,000
- PI: IMO (Intelligent Medical Objects), #2013-05716-00-00: Computational expansion of controlled medical vocabulary and identification of organizational social media footprint (06/2013 - 12/2013)	\$38,900
- NCSA (National Center for Supercomputing Applications) Faculty Fellowship: Predictive modeling for impact assessment (08/2015-07/2016)	\$23,000
- PI: KISTI (Korea Institute of Science and Technology Information): Selection versus Homophily in Scientific Collaboration Networks (2016)	\$33,000
- PI: KISTI (Korea Institute of Science and Technology Information), C3240: Modeling of nation-scale scientific collaboration networks and impact of entity disambiguation on big network data (04/2015-09/2015)	\$50,000
- PI: KISTI (Korea Institute of Science and Technology Information), grant P14033: Authority data based scientist network analysis (03/2014-09/2014)	\$47,475
- PI: Anheuser Busch, #2014-04922: Socio-technical data analytics for improving impact and impact assessment (05/2015 – 04/2015)	\$125,000
- Gift and Contract: Connected Action (2014-2016)	total \$34,500
- PI: Center for Investigative Reporting (2013): Impact Assessment	\$7,500
- Gifts: Peace is Loud (2014), Shoot First Inc. (2014), Picture Motion (2014), VM People (2014), Robert Stone Productions (2013)	total \$10,500
- PI: Start-up allocation award from Extreme Science and Engineering Discovery Environment (XSEDE): Developing an entity extractor for the scalable construction of semantically rich socio-technical network data (2013)	30,000 service units

Publications

Peer Reviewed Journals

1. Kim J, **Diesner J** (accepted) Less than expected: Over-time measurement of triadic closure in scientific collaboration networks. *Journal for Social Network Analysis and Mining (SNAM)*.
2. 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 = 2.230)
3. Kim J, Tao L, Lee, S-H, **Diesner J** (2016) Evolution and Structure of Scientific Co-publishing Network in Korea during 1948-2011. *Scientometrics*, 1-15. DOI:10.1007/s11192-016-1878-5 (IF = 2.274)
4. **Diesner J** (2015) Small Decisions with Big Impact on Data Analytics. Invited paper. *Big Data & Society, special issue on Assumptions of Sociality 2(2)*, DOI: 10.1177/2053951715617185
5. 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 = 3.580)
6. 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 = 2.230)
7. **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*. DOI: 10.3998/3336451.0017.306
8. 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
9. 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 = 2.274)
10. van Holt T, Johnson JC, Carley KM, 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 = 1.29)
11. **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. DOI: 10.1007/s13218-012-0225-0. Invited paper
 12. **Diesner J**, Carley KM, 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 = 0.424)
 13. Chang Y, **Diesner J**, Carley KM (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 = 2.171)
 14. 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
 15. **Diesner J**, Carley KM (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
 16. Carley KM, **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 (IF = 1.119)
 17. **Diesner J**, Frantz T, Carley KM (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

Peer Reviewed Conferences (full papers unless noted otherwise)

18. 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. Short paper, Proceedings of *IEEE 11th International Conference on Semantic Computing (ICSC)*, San Diego, CA.
19. 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 2017)*, Portland, OR.
20. 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)*, Osaka, Japan
21. Jiang M, **Diesner J** (2016) Rating Prediction and Feature Comparison of Issue-Focused Documentaries versus Feature Films. Short paper at *ACM Hypertext and Social Media*, Halifax, Canada.
22. **Diesner J**, Rezapour R, Jiang M (2016) Assessing Public Awareness of Social Justice Documentary Films based on News Coverage versus Social Media. *iConference*, Philadelphia, PA, USA (Acceptance Rate = 32%)
23. **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%)
24. Mishra S, **Diesner J** (2015) Sentiment analysis with incremental human-in-the-loop learning and lexical resource customization. Poster in proceedings of *ACM Hypertext and Social Media*, Cyprus. DOI: 10.1145/2700171.2791022 (Acceptance Rate = 40%)
25. **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%)
26. Al-Sabbagh R, Girju R, **Diesner J** (2015) A Unified Framework to Identify and Extract Uncertainty Cues, Holders, and Scopes. Proceedings of *International Conference on Intelligent Text Processing and Computational Linguistics (CICLing)*, Cairo, Egypt. DOI: 10.1007/978-3-319-18111-0_24 (Acceptance Rate = 28.9%)

27. **Diesner J**, Rezapour R (2015). Social Computing for Impact Assessment of Social Change Projects. *International Social Computing, Proceedings of Behavioral Modeling and Prediction Conference (SBP 2015)*, Washington, DC, Mar/Apr 2015. DOI: 10.1007/978-3-319-16268-3_4 (Acceptance Rate = 25%)
28. Mishra S, Agarwal S, Guo J, Phelps K, Picco J, **Diesner J** (2014) Enthusiasm and Support: Alternative Sentiment Classification for Social Movements on Social Media. *Poster presented at the 2014 ACM conference on Web Science*, Bloomington, IN. (earlier version presented at 2014 iConference, Berlin, Germany). DOI: 10.1145/2615569.2615667
29. 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)*, p 105-108. DOI: 10.1145/2556420.2556849 (Acceptance Rate = 27%)
30. **Diesner J**, Pak S, Kim J, Soltani K, Aleyasen A (2014) Computational Assessment of the Impact of Social Justice Documentaries. *iConference*, Berlin, Gemany. DOI: 10.9776/14125 (Acceptance Rate = 32%)
31. 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)*, Dublin, Ireland. (Acceptance Rate = 14%)
32. 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)*, Nagoya, Japan. (Acceptance Rate = 20%)
33. 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.
34. **Diesner J**, Tambayong L, Carley KM (2010) Mapping socio-cultural networks of Sudan from open-source, large-scale text data. *29th Conference of Sudan Studies Association (SSA)*, Lafayette, IN. DOI: 10.1007/s10588-012-9126-x
35. **Diesner J**, Carley KM (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*
36. Landwehr P, **Diesner J**, Carley KM (2009) Words of Warcraft: a relational text analysis of quests in an MMORPG. *Proceedings of Digital Games Research Association Conference (DiGRA)*, London, UK.
37. **Diesner J**, Carley KM (2007) Conditional Random Fields for Entity Extraction and ontological text coding. *Proceedings of North American Association for Computational Social and Organizational Science Conference (NAACSOS)*, Atlanta, GA. DOI: 10.1007/s10588-008-9029-z ***Best Student Paper Award**
38. Lecy J, **Diesner J**, Carley KM (2006) Identification of knowledge groups from the Enron Email corpus. *Proceedings of 56th Conference of International Communication Association (ICA)*, Dresden, Germany. (Acceptance Rate = 11%)
39. **Diesner J**, Kumaraguru P, Carley KM (2005) Mental Models of data privacy and security extracted from interviews with Indians. *Proceedings of 55th Conference of International Communication Association (ICA)*, New York, NY. (Acceptance Rate = 45%)
40. **Diesner J**, Carley KM (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.
41. Carley KM, **Diesner J**, Reminga J, Tsvetov 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
42. Lewis ET, **Diesner J**, Carley KM (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)

43. Mishra S, **Diesner J** (2016) Semi-supervised Named Entity Recognition in noisy-text. *2nd Workshop on Noisy User-generated Text (W-NUT) at 26th International Conference on Computational Linguistics (COLING)*, Osaka, Japan.
44. **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 at 19th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2016)*, San Francisco, CA.
45. **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.
46. **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.
47. 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
48. **Diesner J**, Aleyasen A, Mishra S, Schecter A, Contractor N (2014). Comparison of Communication Networks built from explicit and implicit data. *Computational Approaches to Social Modeling (ChASM 2014), ACM WebScience*, Bloomington, IN.
49. Al-Sabbagh R, Girju R, **Diesner J** (2014). Interactive Annotation for Event Modality in Modern Standard and Egyptian Arabic Tweets. *Linguistic Annotation Workshop (LAW VIII 2014) at 25th Conference on Computational Linguistics (COLING)*, Dublin, Ireland.
50. Al-Sabbagh R, Girju R, **Diesner J** (2014) Unsupervised Learning 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.
51. **Diesner J**, Carley KM (2012) Impact of Relation Extraction Methods from Text Data on Network Data and Analysis Results. *ACM Web Science Conference, Words and Networks Workshop (WON)*, Evanston, IL.
52. 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. *ACM Web Science Conference, Words and Networks Workshop (WON)*, Evanston, IL.
53. **Diesner J**, Carley KM (2010) A methodology for integrating network theory and topic modeling and its application to innovation diffusion. *IEEE International Conference on Social Computing, Workshop on Finding Synergies Between Texts and Networks*, Minneapolis, MN. DOI: 10.1109/SocialCom.2010.106 *Best Workshop Paper Award
54. **Diesner J**, Carley KM (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.

Reviewed Conferences: Extended Abstracts

55. 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.
56. **Diesner J**, Rezapour R, Pak S (2015) Comparative Impact Assessment of Documentaries and Related Media. Extended abstract *HASTAC*, East Lansing, MI.
57. Evans C, **Diesner J**, Blake C (2015) Email Data Analysis as an Alternate Lens into Historical Events. Extended abstract *HASTAC*, East Lansing, MI.
58. **Diesner J**, Kim J, Higgings A (2014) Socio-Semantic Network Analysis for Impact Assessment. Abstract *European Social Networks Conference (EUSN)*, Barcelona, Spain.
59. **Diesner J** (2014) Computational Assessment of the Impact of Social Justice Documentaries.

Extended abstract *HASTAC*, Lima, Peru.

60. **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.
61. **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.
62. **Diesner J**, Carley KM (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.
63. **Diesner J**, Carley KM (2009) WYSIWII - What You See Is What It Is: Informed approximation of relational data from texts. *General Online Research (GOR) Conference*, Vienna, Austria.
64. Carley KM, Frantz T, **Diesner J** (2006) Social and knowledge networks from large scale databases. *56th Conference of International Communication Association (ICA)*, Dresden, Germany.

Book Chapters

1. **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.
2. **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).
3. Gloor P, **Diesner J** (2014) Semantic Social Networks. In R Alhajj, J Rokne (Eds) *Encyclopedia of Social Network Analysis and Mining* (pp. 1654-1659).
4. **Diesner J**, Mergel I, Carley KM (2011) Network Analysis software. In G Barnett (Ed) *Encyclopedia of Social Networking* (pp. 595-598), Sage.
5. **Diesner J**, Carley KM (2011) Semantic Networks. In G Barnett (Ed) *Encyclopedia of Social Networking* (pp. 595-598) Sage.
6. **Diesner J**, Carley KM (2011) Words and networks. In G Barnett (Ed) *Encyclopedia of Social Networking* (pp. 958-961) Sage.
7. **Diesner J**, Carley KM (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.
8. **Diesner J**, Carley KM (2010) Relational methods for analyzing and preventing crime (German: Relationale Methoden in der Erforschung, Ermittlung und Prävention von Kriminalität). In C Stegbauer, R Häußling (Eds) *Handbook Network Research* (pp. 725-738) VS Verlag.
9. Weil SA, Foster P, Freeman J, Carley KM, **Diesner J**, et al. (2008) Converging approaches to automated communications-based assessment of team situation awareness. In MP Letsky, NW Warner, SM Flore, CAP Smith (Eds) *Macro cognition in Teams. Theories and Methodologies* (pp. 277-304) Ashgate.
10. **Diesner J**, Carley KM (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

11. Lewis, ET, Carley KM, **Diesner J** (2016) *Displaying responsiveness or asserting identity in organizational language: how concept networks capture rhetorical strategies*. Technical Report CMU-ISR-16-111.
12. **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. (PhD thesis)
13. Carley KM, **Diesner J**, DeReno M, Columbus D at al. (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.
14. **Diesner J**, Carley KM (2008) *Looking under the hood of stochastic part of speech taggers*.

Technical Report CMU-ISR-12-131R.

15. Frantz TL, Carley KM, **Diesner J** (2005) *An Automated Methodology for Conducting a Social Network Study of a University Faculty*. Technical Report CMU-ISRI-05-106.
16. Tsvetovat M, **Diesner J**, Carley KM (2004) *NetIntel: A database for manipulation of rich social network data*. Technical Report CMU-ISRI-04-135.
17. **Diesner J**, Carley KM (2004) *AutoMap1.2 - Extract, analyze, represent, and compare mental models from texts*. Technical Report CMU-ISRI-04-100.

Selected other Papers and Presentations (not peer reviewed)

18. Shen H, **Diesner J** (2014) Semantic Network Analysis of the Public Discourse on Censorship in China. *National Communication Association 100th Annual Conference*, Chicago, IL
19. Carley KM, **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.
20. **Diesner J** (2008). Computer Science in Numbers: *Diversity and Employment*. Presentation at Carnegie Mellon University, Pittsburgh, PA.
21. Weil SA, Carley KM, **Diesner J**, Freeman J, Cooke NJ (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):

22. Evans C, **Diesner J** (2016) Interplay between personal morals with tie and cluster formation in a corporate communication networks.
 23. **Diesner J**, Pak S (2015) Evaluation and Contextualization of Networks Extracted From Text Data
 24. **Diesner J**, Kim J, Pak S (2014) Socio-Semantic Network Analysis for Impact Assessment of Documentaries.
 25. Kim J, **Diesner J** (2014) Structure of scientific collaboration: considering the order of co-authors for co-authorship networks.
 26. Soltani K, **Diesner J** (2014) Improved visualization of multi-mode networks that entail geo-coded entities.
 27. Wilner S, Aleyasen A, Mishra S, Soltani K, **Diesner J** (2014) Comparison of network data constructed from text data and textual meta-data
 28. **Diesner J**, Carley KM (2013) Error Propagation and Robustness of Relation Extraction Methods
 29. Kim J, **Diesner J** (2013) Structural balance in story structures.
 30. **Diesner J**, Carley KM (2012) Impact of methods for relation extraction from text data on network analysis results.
 31. **Diesner J**, Carley KM (2011) Extraction and validation of socio-technical network data about the Sudan from text corpora.
 32. **Diesner J**, Carley KM (2010) Computational integration of network theory and topic modeling for investigating the relationship between socio-technical networks and innovation in the EU.
 33. Mergel I, **Diesner J**, Carley KM (2010) Attention networks among members of congress.
 34. Stuetzer C, **Diesner J**, Carley KM, Koehler T, Thiem G (2010) Identifying and integrating social roles and structural for the case of collaborative e-learning environments.
 35. **Diesner J**, Carley KM, Katzmaier H (2008) He says, she says - Identity and polarization in communication networks of an organization in crisis.
 36. McConville, E, **Diesner J**, Carley KM (2008) AutoMap Software demonstration.
 37. **Diesner J**, Carley KM, Katzmaier H (2007) The morphology of a breakdown. How the semantics and mechanics of communication networks from an organization in crisis relate.
 38. **Diesner J**, Pfeffer J, Katzmaier H (2006) Evaluating scientific classification systems by bottom-up clustering of abstracts using semantic network analysis.
 39. **Diesner J**, Carley KM (2005). Revealing and comparing the organizational structure of covert networks with network text analysis.
 40. Carley KM, Frantz T, **Diesner J**, Davis G (2005) Groups: surface and deep structure.
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41. Lewis ET, Carley KM, **Diesner J** (2003) Concept networks in organizational language: consensus or creativity?
42. Lewis ET, **Diesner J**, Carley KM (2002) Using network analysis to extract and analyze self-presentation strategies in texts.

Keynotes and Invited Talks

Keynote Talks

1. COINs (Collaborative Innovation Networks) Conference, Rome, Italy 2016
2. GOR (General Online Research) Conference, Dresden, Germany: Rich and Reliable Signals: Making Responsible Choices for Working with Social Interaction Data 2016
3. 9th Historical Network Research Symposium, Ruhr Uni, Bochum, Germany: Developing practical solutions to real world problems by going from words to networks 2015
4. NetGlow Conference, Saint-Petersburg, Russia: Socio-semantic networks 2014
5. Ditact Conference – women’s IT studies, University Salzburg, Austria: Computational Thinking in the playroom, classroom, boardroom 2014
6. DISC (Daegu International Social Network Conference), Daegu, South Korea: Words and Networks 2013
7. Future of Historical Network Research Conference, Hamburg, Germany: Of microscopes and telescopes in the digital humanities and computational social sciences 2013

On “Words and Networks”

8. Forum Alpbach, Austria 2016
9. KISTI (Korea Institute of Science & Technology Information), Daejeon, South Korea 2013
10. KAIST (Korea Advanced Institute of Science and Technology), Daejeon, South Korea 2013
11. Free University, Amsterdam, Netherlands 2013
12. Saint-Petersburg State University, Russia 2013
13. Purdue University, KredibleNet Workshop 2013
14. University of California, Berkeley 2013
15. Northwestern University, Science of Networks in Communities Center (SONIC) 2013
16. University of Maryland, School of Information, Summer Social Webshop 2012
17. European Research Center for Information Systems, University of Münster, Germany 2011
18. Syracuse University, School of Information 2011
19. Dresden University of Technology, Education Sciences Department, Germany 2009
20. Dialego corporation, Aachen, Germany 2008
21. vm-people, LLC, Berlin, Germany 2008
22. Deutsche Welle, Berlin, Germany: Mapping Politics, with P. Ueschner 2008
23. FAS.research, LLC, Vienna, Austria 2005

On “Mapping and Investigating Covert Networks”

24. Army Corps of Engineers, Champaign, IL 2016
25. Columbia University, Economic History Seminar, NY 2014
26. Research Park Champaign, IL, Corporate Roundtable 2013
27. University of Hamburg, Germany 2012
28. German Armed Forces Command and Staff College, Hamburg, Germany 2010, ‘11
25. IT Defense Conference, Frankfurt, Germany 2011
26. NATO School, Oberammergau, Germany 2009
27. Washington Institute for Near East Policy, Washington, D.C. 2005

On “Impact Assessment”

28. Purdue University, Lafayette, IN 2014
29. CUNY, Graduate School of Journalism, New York, NY 2014

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| 30. Impact Distribution Lab, BritDoc and Ford Foundation, New York, NY | 2014 |
| 31. The Media Consortium Annual Conference, Chicago, IL | 2014 |
| 32. Center for Investigate Reporting (CIR), Oakland, CA | 2013 |
| 33. Paley Center for Media, New York | 2013 |
| 34. Sundance Institute, Creative Producing Summit | 2013 |

On other topics

- | | |
|---|------|
| 35. "Usable Ethics" iConference, Workshop on Ethics, Philadelphia, PA | 2016 |
| 36. Pennsylvania Association for Gifted Education Conference: Encouraging the participation of girls and women in computer science: research and action | 2010 |
| 37. Exploring under the surface: Yielding higher value from life science transactions Conference (Boston, MA): Network analytics in life science | 2008 |
| 38. Chemnitz Art Museum, Germany: Art Network Visualization, with C. Stuetzer | 2008 |
| 39. University of Applied Sciences, Mittweida, Germany, Complexity Workshop: System Dynamics: Approach to computational modeling and simulation. | 2008 |
| 40. University of Applied Sciences, Mittweida, Germany, Complexity Workshop: Data Collection online: Feasible does not have to mean legal | 2008 |
| 41. Ars Electronica, Linz, Austria, Age of Simulation Conference: Communication networks from the Enron email corpus | 2005 |

Teaching

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

University of Illinois at Urbana-Champaign, iSchool:

- Social Computing (newly developed): Fall 2012-13, Spring 2016
- Network Analysis (newly developed): Fall 2012-16, Spring 2014-15, 17
- Digital Humanities (redesigned): Spring 2013-14
- Information Networks: Spring 2012-13
- Social Aspects of Information Technologies: Spring 2012

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 Sep 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

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 09-10,14-16
- Daegu International Social Network Conference (DISC), South Korea 2013, 2014
- International Research Methods Workshop, University Southern Demark and 2012- 2013

Flensburg, Germany	
- 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- 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
- 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	
- 201Completion of “Documentation of Teaching Development Program”, Eberly Center for Teaching Excellence, Carnegie Mellon	06/2009-05/2010
Student Advising	
PhD student advisees:	
- Ly Dinh, UIUC, iSchool	08/2016-
- Rezvaneh Rezapour, UIUC, iSchool	08/2015-
- Craig Evans, UIUC, Informatics	08/2014-
- Ming Jiang, UIUC, iSchool	08/2014-
- Shubhanshu Mishra, UIUC, iSchool	08/2013-
- Sean Wilner, UIUC, Informatics	08/12-12/13
- Kiumars Soltani, UIUC, Informatics	08/12-2015
- Shameem Ahmed, UIUC, iSchool	08/12-08/13
- Jinseok Kim, UIUC, iSchool (proposed)	08/2012-
Doctoral thesis committee member:	
- Kirstin Phelps, UIUC, iSchool (proposed)	2016
- Natalie Smith, UIUC, Recreation, Sport and Tourism (now Assistant Prof. at East Tennessee State University)	2016
- Natalie Lambert, UIUC, Communication (now Assistant Prof. at Purdue)	2015
- Brent Fegley, UIUC, Informatics	2015
- Andrew Pilny, UIUC, Communication (now Assistant Prof. Univ. Kentucky)	2015
- Rania Al-Sabbagh, UIUC, Linguistics (now Assistant Prof. at Ain Shams Univ., Kairo, Egypt)	2015

Master student advisees:	
- Harathi Korrapati, UIUC, iSchool	2015-16
- Rezvaneh Rezapour, UIUC, iSchool	2014-15
- Liang Tao, UIUC, Agricultural Engineering	2013-15
- Amirhossein Aleyasen, UIUC, Computer Science	2013-15
- Patric Ueschner, Communication, Mittweida Univ. of Applied Sciences	2007-2008
Advisor for REU (research experience for undergraduates):	
- Sandra Franco, UIUC, Linguistics	2014-16

Service and Leadership

Editorial Board Member:

- Social Network Analysis and Mining (SNAM) since 2014
- Connections (Journal) since 2012

Conference Program Committee Member (alphabetical):

- ACM HYPERTEXT and Social Media (2012, 2013, 2015, 2016)
- ACM/ IEEE International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (2011, 13, 15, 16)
- Complex Networks (2016)
- Conference of Journal of Information Technology & Politics (JITP) (2011)
- Empirical Methods in Natural Language Processing (MNL) 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) (2013-2015)
- General Online Research (GOR) Conference (2009)
- INFORMATIK Conference (2011)
- International AAAI Conference on Web and Social Media (ICWSM) (2014, 2016, 2017)
- International Conference on Collaborative Innovation Networks (COINs) (2013, 2015)
- 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)
- International Social Computing, Behavioral-Cultural Modeling and Prediction Conference (SBP) (2015, 2016)
- 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)
- Social Media and Society Conference (SM) (2015, 2016)

Conference Program Co-Chair

- ACM/ IEEE International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (2017)

Conference Organizing Committee Member

- Opportunities for undergrad research in computer science (OurCS) conference, CMU (2011)

Steering Committee Member

- Society for Learning Analytics Research (SoLAR) (Since 2011)

Organizer

- Track at International Sunbelt Social Network Conference: Words and Networks (2010-2016)
- Social and Semantic Networks in Communication Research, preconference at Conference of International Communication Association (ICA) (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) (2014-2016)
- Aspen Institute, Advocacy Planning and Evaluation Program (APEP): Media Impact Evaluation Advisory Group (2012)

Panel organizer/chair:

- “Natural Language Processing”. Big Data Summit, UIUC (2017)
- “Data collection online”. General Online Research (GOR) Conference (2009)

Invited Panelist:

- Sundance Institute, Creative Producing Summit (2013)
- Future of Historic Network Research Conference (2013)
- Digital Humanities Conference, UIUC (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
- Big Data and Society
- 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

- NSERC (Natural Sciences and Engineering Research Council of Canada) (2016)
- NWO (Dutch Research Council) (2015)
- NSF (2014)
- NEH (National Endowment for the Humanities) (2013)

Membership in Professional Organizations

ACM (2004 -), IEEE (2009 -), Society for Industrial and Applied Mathematics (SIAM) (2008 -), National Center for Women & Information Technology (NCWIT) (2012 -), International Network

for Social Network Analysis (INSNA) (2012 -), Gesellschaft für Informatik (GI) (2009 -)

Educational Outreach and Leadership

- Working to encourage and train K12 school students, especially women and minorities, to pursue careers in computing:
- 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)
- Frequent instructor and speaker at technical training sessions, outreach sessions and career option workshops in computing for K12 and undergrad students and instructors

Committee Service and Administrative Roles at the iSchool at UIUC

- PhD Program Director (since 02/2017)
- Executive Committee (2015/16, 2016/17)
- Doctoral Studies Committee (Fall 2012, 2013, Spring 2014)
- Curriculum Committee (Fall 2014, Spring 2015)
- Admissions Committee (Spring 2012)