

Jana Diesner

Curriculum Vitae

University of Illinois at Urbana-Champaign (UIUC)
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current as of 07/2017

RESEARCH AREAS

- Human-Centered Data Science, Computational Social Science
- Network Analysis, Natural Language Processing, Machine Learning
- Regulations and Ethics for Human-Centered and Online Data

EMPLOYMENT

University of Illinois at Urbana-Champaign (UIUC)

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

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

Title: Uncovering and Managing the Impact of Methodological Choices for the Computational Construction of Socio-Technical Networks from Texts

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)

- 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
- Carnegie Mellon University: Gelfand student award for educational outreach and service learning 2010
- Socrates-Erasmus Program: scholarship for studies at Univ. 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 (accepted) Over-time measurement of triadic closure in coauthorship networks. *Journal for Social Network Analysis and Mining (SNAM)* 7(1).

- 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 = 2.230)
- 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*, 1-15. DOI:10.1007/s11192-016-1878-5 (IF = 2.274)
- 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 = 3.580)
- 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 = 2.230)
- 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 = 2.274)
- J7 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)
- J6 **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)
- J5 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)
- 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 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
- J2 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)
- J1 **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

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)*, 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*. 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. DOI: 10.1007/s13218-012-0225-0.

Peer Reviewed Conferences (full papers unless noted otherwise)

- 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)*, Portland, OR.
- 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. Short paper, Proceedings of *IEEE 11th International Conference on Semantic Computing (ICSC)*, San Diego, CA.
- 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)*, Osaka, Japan
- C22 Jiang M, **Diesner J** (2016) Rating Prediction and Feature Comparison of Issue-Focused Documentaries versus Feature Films. Short paper, *ACM Hypertext and Social Media*, Halifax, Canada.
- 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, PA, 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. Poster, Proceedings of *ACM Hypertext and Social Media*, Cyprus. DOI: 10.1145/2700171.2791022 (Acceptance Rate = 40%)
- C18 **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%)
- 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 (eds) *Computational Linguistics and Intelligent Text Processing. CICLing 2015*. Lecture Notes in Computer Science, vol 9041, pp. 310-334, 2015. Springer, Cham. DOI: 10.1007/978-3-319-18111-0_24 (Acceptance Rate = 28.9%)
- C16 **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%)
- C15 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, *ACM Conference on Web Science*, Bloomington, IN (earlier version presented at 2014 iConference, Berlin, Germany). 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)*, p 105-108. 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, Gemany. 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)*, pages 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 2014)*, page 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 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
- C8 **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*
- C7 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.
- C6 **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**
- C5 Leczy 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%)
- C4 **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%)
- C3 **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.
- C2 Carley KM, **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 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/ Symposia (full and short papers unless noted otherwise)

- W12 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.
- 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 at 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 (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)*, pages 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 KM (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 KM (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*, Minneapolis, MN. DOI: 10.1109/SocialCom.2010.106 ***Best Workshop Paper Award**
- W1 **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

Extended Abstracts

- 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 **Diesner J**, **Rezapour R**, Pak S (2015) Comparative Impact Assessment of Documentaries and Related Media. Extended abstract *HASTAC*, East Lansing, MI.
- E8 **Evans C**, **Diesner J**, Blake C (2015) Email Data Analysis as an Alternate Lens into Historical Events. Extended abstract *HASTAC*, East Lansing, MI.
- E7 **Diesner J**, **Kim J**, Higgins A (2014) Socio-Semantic Network Analysis for Impact Assessment. Abstract *European Social Networks Conference (EUSN)*, Barcelona, Spain.
- E6 **Diesner J** (2014) Computational Assessment of the Impact of Social Justice Documentaries. Extended Abstract *HASTAC*, Lima, Peru.
- E5 **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.

- 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 KM** (2010) Extension of supervised machine learning system to extract sociotechnical 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 KM** (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 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

- B10 **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.
- B9 **Diesner J, Smith M** (2014) Combining Online Maps with Text Analysis. In R Alhaji, J Rokne (Eds) *Encyclopedia of Social Network Analysis and Mining* (pp. 202-206)
- B8 Gloor P, **Diesner J** (2014) Semantic Social Networks. In R Alhaji, J Rokne (Eds) *Encyclopedia of Social Network Analysis and Mining* (pp. 1654-1659)
- B7 **Diesner J, Mergel I, Carley KM** (2011) Network Analysis software. In G Barnett (Ed) *Encyclopedia of Social Networking* (pp. 595-598), Sage.
- B6 **Diesner J, Carley KM** (2011) Semantic Networks. In G Barnett (Ed) *Encyclopedia of Social Networking* (pp. 595-598) Sage.
- B7 **Diesner J, Mergel I, Carley KM** (2011) Network Analysis software. In G Barnett (Ed) *Encyclopedia of Social Networking* (pp. 595-598), Sage.
- B6 **Diesner J, Carley KM** (2011) Semantic Networks. In G Barnett (Ed) *Encyclopedia of Social Networking* (pp. 595-598) Sage.
- B5 **Diesner J, Carley KM** (2011) Words and networks. In G Barnett (Ed) *Encyclopedia of Social Networking* (pp. 958-961) Sage.
- B4 **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.
- B3 **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.
- B2 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.
- B1 **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

- R7 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.

- 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. (PhD thesis)
- R5 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.
- R4 **Diesner J**, Carley KM (2008) *Looking under the hood of stochastic part of speech taggers*. Technical Report CMU-ISR-12-131R.
- R3 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.
- R2 Tsvetovat M, **Diesner J**, Carley KM (2004) *NetIntel: A database for manipulation of rich social network data*. Technical Report CMU-ISRI-04-135.
- R1 **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)

- 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 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.
- P2 **Diesner J** (2008). Computer Science in Numbers: *Diversity and Employment*. Presentation at Carnegie Mellon University, Pittsburgh, PA.
- P1 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)

- 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) Evaluation and Contextualization of Networks Extracted From Text Data.
- N19 **Diesner J**, Kim J, Pak S (2014) Socio-Semantic Network Analysis for Impact Assessment of Documentaries.
- N18 Kim J, **Diesner J** (2014) Structure of scientific collaboration: considering the order of co-authors for co-authorship networks.
- N17 Soltani K, **Diesner J** (2014) Improved visualization of multi-mode networks that entail geo-coded entities.
- N16 Wilner S, Aleyasen A, Mishra S, Soltani K, **Diesner J** (2014) Comparison of network data constructed from text data and textual meta-data
- N15 **Diesner J**, Carley KM (2013) Error Propagation and Robustness of Relation Extraction Methods
- N14 Kim J, **Diesner J** (2013) Structural balance in story structures
- N13 **Diesner J**, Carley KM (2012) Impact of methods for relation extraction from text data on network analysis results.
- N12 **Diesner J**, Carley KM (2011) Extraction and validation of socio-technical network data about the Sudan from text corpora.
- N11 **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.

- N10 Mergel I, **Diesner J**, Carley KM (2010) Attention networks among members of congress.
- N9 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.
- N8 **Diesner J**, Carley KM, Katzmair H (2008) He says, she says - Identity and polarization in communication networks of an organization in crisis.
- N7 McConville, E, **Diesner J**, Carley KM (2008) AutoMap Software demonstration.
- N6 **Diesner J**, Carley KM, 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 KM (2005). Revealing and comparing the organizational structure of covert networks with network text analysis.
- N3 Carley KM, Frantz T, **Diesner J**, Davis G (2005) Groups: surface and deep structure.
- N2 Lewis ET, Carley KM, **Diesner J** (2003) Concept networks in organizational language: consensus or creativity?
- N1 Lewis ET, **Diesner J**, Carley KM (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

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| 1. COINs (Collaborative Innovation Networks) Conference, Rome, Italy: Words and Networks: Using Natural Language Processing to enhance graphs and test network theories. | 2016 |
| 2. GOR (General Online Research) Conference, Dresden, Germany: Rich and Reliable Signals: Making Responsible Choices for Working with Social Interaction Data | 2016 |
| 3. 9 th 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 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”

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| 8. Re-Computing Social Sciences Workshop, UC Davis | 2017 |
| 9. Forum Alpbach, Austria | 2016 |
| 10. KISTI (Korea Institute of Science & Technology Information), Daejeon, South Korea | 2013 |
| 11. KAIST (Korea Advanced Institute of Science and Technology), Daejeon, South Korea | 2013 |
| 12. Free University, Amsterdam, Netherlands | 2013 |
| 13. Saint-Petersburg State University, Russia | 2013 |
| 14. Purdue University, KredibleNet Workshop | 2013 |
| 15. University of California, Berkeley | 2013 |

16. Northwestern University, Science of Networks in Communities Center (SONIC)	2013
17. University of Maryland, School of Information, Summer Social Webshop	2012
18. European Research Center for Information Systems, University of Münster, Germany	2011
19. Syracuse University, School of Information	2011
20. Dresden University of Technology, Education Sciences Department, Germany	2009
21. Dialego corporation, Aachen, Germany	2008
22. vm-people, LLC, Berlin, Germany	2008
23. Deutsche Welle, Berlin, Germany: Mapping Politics, with P. Ueschner	2008
24. Chemnitz Art Museum, Germany: Art Network Visualization, with C. Stuetzer	2008
25. Ars Electronica, Linz, Austria, Age of Simulation Conference	2005
26. FAS.research, LLC, Vienna, Austria	2005
On “Mapping and Investigating Covert Networks”	
27. Army Corps of Engineers, Champaign, IL	2016
28. Columbia University, Economic History Seminar, NY	2014
29. Research Park Champaign, IL, Corporate Roundtable	2013
30. University of Hamburg, Germany	2012
31. German Armed Forces Command and Staff College, Hamburg, Germany	2010, ‘11
32. IT Defense Conference, Frankfurt, Germany	2011
33. NATO School, Oberammergau, Germany	2009
34. Washington Institute for Near East Policy, Washington, D.C.	2005
On “Impact Assessment”	
35. Cultural Analytics Symposium, Notre Dame	2017
36. Purdue University, Lafayette, IN	2014
37. CUNY, Graduate School of Journalism, New York, NY	2014
38. Impact Distribution Lab, BritDoc and Ford Foundation, New York, NY	2014
39. The Media Consortium Annual Conference, Chicago, IL	2014
40. Center for Investigate Reporting (CIR), Oakland, CA	2013
41. Paley Center for Media, New York	2013
42. Sundance Institute, Creative Producing Summit	2013
On “Open Science, Regulations, and Compliance”	
43. Open Science Conference, Berlin, Germany	2017
44. “Usable Ethics” iConference, Workshop on Ethics, Philadelphia, PA	2016
45. University of Applied Sciences, Mittweida, Germany, Complexity Workshop	2005
On other topics	
46. Pennsylvania Association for Gifted Education Conference: Encouraging the participation of girls and women in computer science: research and action	2010
47. Exploring under the surface: Yielding higher value from life science transactions Conference (Boston, MA): Network analytics in life science	2008
48. University of Applied Sciences, Mittweida, Germany, Complexity Workshop: System Dynamics: Approach to computational modeling and simulation	2008

FUNDING

TextTransfer – Corpus-based detection of secondary use of scientific publications

- Agency: Federal Ministry of Education and Research (Germany) and Institute for German Language (IDS) (Germany)

- Principle Investigator: Dr. Andreas Witt (IDS), R&D PI: Jana Diesner
- Total: \$597,844 (Diesner: \$109,936)
- Period: 06/2017-11/2018

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

- Agency: Midwest Big Data Hub & Computing Community Consortium (NSF sub-award)
- Principle Investigator: Jana Diesner
- Total: \$5,000
- Period: 2016

Computational impact assessment of issue focused media and information products

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

Computational impact assessment of social justice documentaries and media

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

Impact assessment of social justice documentaries

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

Predictive modeling for detection and classification of medical entities and facts

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

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

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

Predictive modeling for impact assessment

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

Selection and Influence: Analysis of academic activity patterns in academic literature

- Agency: KISTI (Korea Institute of Science and Technology Information)
- Principle Investigator: Jana Diesner
- Total: \$25,000

- Period: 06/2017-11/2017

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

- Agency: KISTI (Korea Institute of Science and Technology Information)
- Principle Investigator: Jana Diesner
- Total: \$33,000
- Period: 05/2016-10/2016

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

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

Authority data based scientist network analysis modeling

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

Socio-technical data analytics for improving impact and impact assessment

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

Evaluation of the performance and usability of the ConText technology

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

Developing an entity extractor for the scalable construction of semantically rich socio-technical network data

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

Other Gifts and Contracts

- Agency: Connected Action, Peace is Loud, Shoot First, Inc., Picture Motion, VM People, Robert Stone Productions
- Principle Investigator: Jana Diesner
- Total: \$45,000
- Period: 2013-2016

TEACHING

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

University of Illinois at Urbana-Champaign, iSchool:

- Social Computing (newly developed): Fall 2012, 2013, Spring 2016

- Network Analysis (newly developed): Fall 2012-16, Spring 2014, 2015, 2017
- Digital Humanities (redesigned): Spring 2013, 2014
- Information Networks: Spring 2012, 2013
- 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 Flensburg, Germany 2012, 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- 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

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

Student Advising

Current PhD student advisees:

- Aseel Addawood, UIUC, Informatics 01/2017-
- Ly Dinh, UIUC, iSchool 08/2016-
- Rezvaneh Rezapour, UIUC, iSchool 08/2015-
- Ming Jiang, UIUC, iSchool 08/2014-
- Shubhanshu Mishra, UIUC, iSchool 08/2013-
- Jinseok Kim, UIUC, iSchool (defended 04/0217, employment: Assistant Research Prof.) 08/12-05/2017

Former PhD advisees:

- Craig Evans, UIUC, Informatics 08/14-12/2016
- Sean Wilner, UIUC, Informatics 08/12-12/13
- Kiumars Soltani, UIUC, Informatics 08/12-2015
- Shameem Ahmed, UIUC, iSchool 08/12-08/13

Doctoral thesis committee member:

- Kirstin Phelps, UIUC, iSchool (proposed) 2016
- Natalie Smith, UIUC, Recreation, Sport and Tourism (employment: Assistant Prof. at East Tennessee State University) 2016
- Natalie Lambert, UIUC, Communication (employment: Assistant Prof. at Purdue) 2015
- Brent Fegley, UIUC, Informatics 2015
- Andrew Pilny, UIUC, Communication (employment: Assistant Prof. at Univ. of Kentucky) 2015
- Rania Al-Sabbagh, UIUC, Linguistics (employment: Assistant Prof. at Ain Shams Univ., Kairo, Egypt) 2015

Advisor for Independent Studies (omitting advisees listed under Master and PhD student advisees, and doctoral thesis committee member):

- 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 Research Practica (omitting advisees listed under Master and PhD student advisees, and doctoral thesis committee member):

- Mikko Tuomela, PhD student, Informatics, Fall 2013
- Kyonghoo Lee, PhD student, Informatics, Spring 2014

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 (with thesis) 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

Program Committee Chair

- 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)
- ACM HYPERTEXT and Social Media (2012, 2013, 2016, 2017)
- ACM/ IEEE International Conference on Advances in Social Networks Analysis and Mining (ASONAM) (2011, 2013, 2015, 2016)
- Complex Networks (2016)
- Conference of Journal of Information Technology & Politics (JITP) (2011)
- 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 Social Science (IC2S2) (2017)
- 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 Conference on Social Media and Society (SMSociety) (2015, 2016, 2017)
- International Social Computing, Behavioral-Cultural Modeling and Prediction Conference (SBP) (2015, 2016, 2017)
- 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)

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) (2014-2018)
- 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
- 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 -), 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)
- 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)

Other Service at iSchool

- Established three year MOU (Memorandum of Understanding) between KISTI (Korea Institute of Science and Technology Information) and the School of Information Sciences (2015)
- Hosting:
 - o Nominated and hosted UIUC’s iSchool 2016-2017 research fellow Andreas Witt, Professor, University Cologne, Germany
 - o Nominated and hosted UIUC’s iSchool 2013-2014 research fellow Susie Pak, Assoc. Professor, St John’s College, New York
 - o 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)
- Urban Informatics for Sustainability and Resilience Center (UrbInSuRe): Co-director of working group in algorithms, data and technology (2014-2015)
- Personnel Committee (2013)

Event Co-Organizer

- Social Media Summit, NCSA (2017)

Panel Organizer/Chair at UIUC

- Big Data Summit, Champaign, IL: “Natural Language Processing” (2017)
- Big Data Summit, Champaign, IL: “Data Science Team Building Panel” (2015)

Invited Panelist at UIUC

- Big Data Summit, Champaign, IL: “Big Data in Social Media” (2013)

Invited Speaker at UIUC

- Graduate Conference on Computational Social Science (2014, 2016)
- Digital Humanities Symposium (2015)
- CyberGIS Brownbag Series, NCSA (2014)
- Digital Humanities Conference (2013)