

Rezvaneh “Shadi” Rezapour

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Research Interests

Computational Social Science, Natural Language Processing, Machine Learning, Network Analysis, Data Science

Education

Doctor of Philosophy (Ph.D.) Candidate, Information Sciences Expected: June 2021

School of Information Sciences, University of Illinois at Urbana-Champaign

- **Dissertation Title:** Text Mining for Social Good: Context-aware Measurement of Social Impact and Effects Using Natural Language Processing
- **Advisor:** Dr. Jana Diesner
- **Committee:** Dr. Karrie Karahalios, Dr. Roxana Girju, Dr. Ted Underwood

Master of Science (M.Sc.), Information Management December 2017

School of Information Sciences, University of Illinois at Urbana-Champaign

Research Experience

School of Information Sciences, University of Illinois at Urbana-Champaign Champaign, IL
Graduate Research Assistant in the Social Computing Lab January 2015 –Present

Synchrony Financial Champaign, IL
Research Intern in the Emerging Technologies Team August 2020 –December 2020

Spotify Research Boston, MA
Research Intern in the Language Technologies Lab June 2020 –August 2020

Gartner Champaign, IL
Research Intern/Data Scientist in the Big Data Innovation Team May 2018 –August 2018

Publications

Refereed Journal Articles

(* equal contribution)

- [j2] Dinh L*, **Rezapour R***, Jiang L, Diesner J. (Under Review). Structural balance in signed digraphs: Considering transitivity to measure balance in graphs constructed by using different link signing methods. *Scientific Reports*.
- [j1] Aref S*, Dinh L*, **Rezapour R***, Diesner J. (2020). Multilevel structural evaluation of signed directed social networks based on balance theory. *Scientific Reports*. (Impact Factor: 3.998)

Refereed Conference Papers

- [c9] Reddy S, Yu Y, Pappu A, Sivaraman A, **Rezapour R**, Jones R. (2021). Detecting non-topical content in podcasts. In *Proceedings of the 16th Annual Meeting of the European chapter of the Association for Computational Linguistics (EACL)*.
- [c8] Clifton A, Reddy S, Yu Y, Pappu A, **Rezapour R**, Bonab H, Karlgren J, Carterette B, Jones R. (2020). 100,000 Podcasts: A Large-Scale spoken English document corpus. In *Proceedings of the 28th International Conference on Computational Linguistics (COLING)*, held online. (Acceptance rate: 32.9%)

- [c7] Sarol J, Dinh L, **Rezapour R**, Chin C, Yang P, Diesner J. (2020). An empirical methodology for detecting and prioritizing needs during crisis events. In *Findings of Empirical Methods in Natural Language (EMNLP)*, held online. (Acceptance rate: 15.5%)
- [c6] Jiang L, Dinh L, **Rezapour R**, Diesner J. (2020). Which group do you belong to? Sentiment-based PageRank to measure formal and informal influence of nodes in networks. In *Proceedings of the International Conference on Complex Networks and Their Applications*, held online.
- [c5] **Rezapour R**, Bopp J, Fiedler N, Steffen D, Witt A, Diesner J. (2020). Beyond citation: Corpus-based methods for assessing the impact of research outcomes on society. In *Proceedings of the 12th International Conference on Language Resources and Evaluation (LREC)*. Marseille , France. (Acceptance rate: 56%)
- [c4] **Rezapour R**, Diesner J. (2017) Classification and detection of micro-level impact of issue-focused films based on reviews. In *Proceedings of 20th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, (pp. 1419-1431), Portland, OR. (Acceptance Rate: 34.5%)
- [c3] **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. In *Proceedings of 11th International Conference on Semantic Computing (ICSC)*, (pp. 93-96), San Diego, CA. (Acceptance Rate: 15.53%)
- [c2] 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%)
- [c1] 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)* (pp. 34-43). Washington, DC. (Acceptance rate: 25%)

Refereed Workshop Papers

- [w4] Han K, **Rezapour R**, Nakamura K S, Devkota D, Miller D C, Diesner J. (2020). A domain-knowledge-based approach for extracting socio-environmental outcomes from project reports. In *Proceedings of METRICS 2020: Workshop on Informetrics and Scientometrics Research, at Association for Information Science & Technology (ASIS&T)*, held online.
- [w3] **Rezapour R**, Shah S, Diesner J. (2019). Enhancing the measurement of social effects by capturing morality. In *Proceedings of the 10th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA)*. Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), Minneapolis, MN.
- [w2] Witt A, Diesner J, Steffen D, **Rezapour R**, Bopp J, Fiedler N, Köller C, Raster M, Wockenfuß J. (2018). Impact of scientific research beyond academia: An alternative classification schema. In *Proceedings of 1st Workshop on Computational Impact Detection from Text Data, 11th Conference on Language Resources and Evaluation (LREC)*, Miyazaki, Japan.
- [w1] Addawood A, **Rezapour R**, Abdar O, Diesner J. (2017). Telling apart tweets associated with controversial versus non-controversial topics. In *Proceedings of 2nd Workshop on Natural Language Processing and Computational Social Science (NLP+CSS) at 55th Annual Meeting of the Association for Computational Linguistics (ACL)*. (pp. 32-41). Vancouver, Canada.

Refereed Extended Abstracts

- [e15] **Rezapour R**. (2020). Text mining for social good; Context-aware measurement of social impact and effects using natural language processing. In *Companion Publication of the 2020 Conference on Computer Supported Cooperative Work and Social Computing (CSCW '20 Companion)*, Virtual Event, USA.
- [e14] Jiang L, Dinh L, **Rezapour R**, Diesner J. (2020). Sentiment-based PageRank to infer important nodes in social networks. In *2020 Women in Data Science Student Poster Session*, Champaign, IL. **Best Poster Award**
- [e13] Aref S*, Dinh L*, **Rezapour R***, and Diesner J. (2020). Multilevel structural evaluation of signed directed social networks. *Network Science Society Conference (NetSci2020)*, held online.
- [e12] Mishra A, **Rezapour R**, Park J, Diesner J. (2020). Leveraging topic modeling to enhance the interpretability of stance detection, In *the 6th Annual International Conference on Computational Social Science (IC2S2)*, Cambridge, MA.
- [e11] **Rezapour R**, Park J, Diesner J. (2020). Detecting characteristics of cross-cutting language networks on social media, In *the 6th Annual International Conference on Computational Social Science (IC2S2)*, Cambridge, MA.
- [e10] **Rezapour R**, Bopp J, Fiedler N, Steffen D, Witt A, Diesner J. (2020). Beyond citation: Corpus-based methods for assessing the impact of research outcomes on society. In *the 6th Annual International Conference on Computational Social Science (IC2S2)*, Cambridge, MA.
- [e9] Dinh L*, **Rezapour R***, Jiang L, Diesner J. (2020). Assessing balance in signed digraphs by combining balance and transitivity. In *the 6th Annual International Conference on Computational Social Science (IC2S2)*, Cambridge, MA.

- [e8] **Rezapour R**, Park J, Diesner J. (2020). Detecting characteristics of cross-cutting language networks on social media. In *International Sunbelt Social Network Conference*, Paris, France.
- [e7] **Rezapour R**, Ferronato P, Diesner J. (2019). How do moral values differ in tweets on social movements?. In *2019 iSchool@Illinois Research Showcase*, Champaign, IL. **Best Poster Award**
- [e6] **Rezapour R**, Ferronato P, Diesner J. (2019). How do moral values differ in tweets on social movements?. In *2019 Computer Supported Cooperative Work and Social Computing Companion Publication (CSCW'19 Companion)*, November 9–13, 2019, Austin, TX. ACM.
- [e5] **Rezapour R**, Diesner J.(2019). How can we detect impact of documentary films from text? Using social computing to assess impact. In *2019 ACM Student Research Competition at Grace Hopper Celebration for Women*, Orlando, FL.
- [e4] **Rezapour R**. (2018). Using linguistic cues for analyzing social activism, In *the 4th Annual International Conference on Computational Social Science (IC2S2)*, Evanston, IL.
- [e3] Addawood A, **Rezapour R**, Mishra Sh, Schneider J, Diesner J. (2017). Developing an information source lexicon, In *the 2017 NIPS Workshop on Prioritising Online Content*, Long Beach, CA.
- [e2] **Rezapour R**, Diesner J. (2017). Classification and detection of micro-level impact of issue-focused films based on reviews. In *12th Women in Machine Learning Workshop (WiML 2017) co-located with NIPS*, Long Beach, CA.
- [e1] Diesner J., **Rezapour R.**, Pak S. (2015). Comparative impact assessment of documentaries and related media. *HASTAC*, East Lansing, MI.

E-Prints and Resources

- [p4] **Rezapour R**, Reddy S, Clifton A, Jones R.(2021). Spotify at TREC 2020: Genre-aware abstractive podcast summarization. In *the Text Retrieval Conference (TREC)*.
- [p3] **Rezapour R**. (2019). Data for: How do moral values differ in tweets on social movements?. *University of Illinois at Urbana-Champaign*. https://doi.org/10.13012/B2IDB-9614170_V1
- [p2] **Rezapour R**, Diesner J. (2019). Expanded morality lexicon. *University of Illinois at Urbana-Champaign*.https://doi.org/10.13012/B2IDB-3805242_V1.1
- [p1] **Rezapour R**. (2018). Using Linguistic Cues for Analyzing Social Movements. *arXiv preprint arXiv:1808.01742*.

Students Mentored

Kevin Redline , M.Sc.'21 Library and Information Science, UIUC Leveraging Story-telling to Analyze People's Moral Perception in Images vs.Texts	2021-Present
Junjie Yue , M.Sc.'21 Information Management, UIUC Leveraging Story-telling to Analyze People's Moral Perception in Images vs.Texts	2021-Present
Farras Rivai , B.Sc.'23 Information Science, UIUC Using Computational Models to Extract Long-term Impact from Unstructured Texts	2020-Present
Ikenna Akuba , B.Sc.'20 Econometrics, UIUC Using Computational Models to Extract Long-term Impact from Unstructured Texts	2020
Vaishnavi Myadam , B.Sc.'22 Statistics and Computer Science, UIUC Using Computational Models to Extract Long-term Impact from Unstructured Texts	2020
Lan Jiang , M.Sc.'20 Information Management, UIUC Analyzing Structural Balance in Social Networks	2020
Saumil Shah , M.Sc.'19 Information Management, UIUC Leveraging Morality to Enhance Stance Prediction	2019
Tiffany Lu ,B.Sc.'18 Actuarial Science and Economics, UIUC Evaluating and Extending Moral Foundation Dictionary	2018
Jessica Schmiederer ,B.Sc.'18 Actuarial Science and Economics, UIUC Evaluating and Extending Moral Foundation Dictionary	2018

Teaching Experience

Guest Lecturer , School of Information Sciences, UIUC Colloquium (Online)	Fall 2020
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Teaching Assistant , Global Education & Training, UIUC Social Network Analysis	Summer 2018
Guest Lecturer , School of Information Sciences, UIUC Social Network Analysis	Spring 2017
Teaching Assistant , School of Information Sciences, UIUC Social Network Analysis	Fall 2016
Guest Lecturer , School of Information Sciences, UIUC Social Media Analysis (Online)	Fall 2016

Talks

Leveraging Moral Values to Analyze People's Real-world Interaction Data Science User Group, UIUC Research Park, Champaign, IL	2021
Context-aware Measurement of Social Impact and Effects Using Natural Language Processing Annual Consortium for Data Scientists in Training, The Michigan Institute for Data Science (MIDAS)	2020
Context-aware Measurement of Social Impact and Effects Using Natural Language Processing Doctoral Consortium, ASIS&T	2020
Context-aware Measurement of Social Impact and Effects Using Natural Language Processing Doctoral Consortium, CSCW	2020
Enhancing the Measurement of Social Effects by Capturing Morality Midwest Speech and Language Days, Toyota Institute of Technology, Chicago, IL	2019

Certificates

Illinois Graduate Mentoring Certificate Participated in a seminar series focused on developing mentoring skills and mentored undergraduate students	2019-2020
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Awards, Fellowships, and Highlights

Doctoral Fellowship, School of Information Sciences, UIUC	2020, 2021
Selected for the Second Annual Consortium for Data Scientists in Training, University of Michigan	2020
Selected for CSCW Doctoral Consortium	2020
Selected for ASIS&T Doctoral Consortium	2020
NCWIT/Bloomberg Conference Grant for Grace Hopper Celebration	2020
SIGCHI Travel Fellowship, ACM	2019
Selected for the ACM Grace Hopper Student Research Competition (SRC)	2019
School of Information Sciences Grace Hopper Award, UIUC	2019
School of Information Sciences Student Travel Award, UIUC	2017, 2018, 2019
Women in Machine Learning Travel Award	2017
Grace Hopper Celebration Student Scholarship, The Anita Borg Institute	2017
Graduate College Travel Award, UIUC	2017
ACM-W Scholarship for Attendance of Research Conferences	2017

Community Involvement and Outreach

Workshop and Tutorial Co-Organizer

Information extraction from social media: A hands-on tutorial on tasks, data, and open source tools The Web Conference (Online)	2021
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PyNetworkshop: Analyzing social network data in Jupyter Python The Web Conference (Online)	2021
Information extraction from social media: A hands-on tutorial on tasks, data, and open source tools International Conference on Computational Social Science (IC2S2) (Online)	2020
Second workshop on computational impact detection from text data International Conference on Language Resources and Evaluation (LREC)	2020
Student poster session Women in Data Science Urbana-Champaign	2020

Chair and Founder

UIUC ACM-W Student Chapter	2019 –Present
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Student Volunteer

Fairness, Accountability, and Transparency Conference (ACM FAT*)	2019
Ph.D. Students Representative in Doctoral Studies Committee School of Information Sciences, UIUC	2018

Program Committee Membership

Web Science Conference (WebSci)	2020
Computer-Supported Cooperative Work and Social Computing (CSCW)	2018 –2020
International AAAI Conference on Web and Social Media (ICWSM)	2019 –2021
International Conference on Computational Social Science (IC2S2)	2018 –2021
Empirical Methods in Natural Language Processing (EMNLP)	2019 –2020
Association for Computational Linguistics (ACL)	2019 –2020
ACL Student Research Workshop (ACL SRW)	2019
North American Chapter of the Association for Computational Linguistics (NAACL)	2019
European Conference on Information Systems (ECIS)	2019
Scientific Computing with Python (SciPy)	2018

Journal/Conference Reviewing

Grace Hopper (GHC) Data Science Track	2017 –2019
ACM Hypertext	2017 –2019
International Conference on Advances in Social Networks Analysis and Mining (ASONAM)	2017, 2019
International AAAI Conference on Web and Social Media (ICWSM)	2017, 2018
SBP-BRiMS	2016, 2018
Journal of Environmental Impact Assessment	2017
Women in Machine Learning (WIML)	2017
Social Media & Society (#SMSociety)	2016, 2017
Complex Networks	2016
International AAAI Conference on Web and Social Media (Chairs) (ICWSMCHAIRS)	2016
Social Informatics (SocInfo)	2016