

Sandeep B. Soni

CONTACT INFORMATION	1000 Northside Dr NW Unit 1553 Atlanta, GA 30318	678-702-3780 sandeepsoni@gatech.edu
RESEARCH INTERESTS	Computational Social Science, Applied Machine Learning, Digital Humanities, Social Networks.	
EDUCATION	Georgia Institute of Technology , Atlanta, GA	
	Ph.D., Computer Science, Advisor: Jacob Eisenstein	<i>Expected:</i> Summer 2021
	M.S., Computer Science (Machine Learning), Pune Institute of Computer Technology , Pune, India	May 2014
	B.E., Computer Engineering,	June 2010
INTERNSHIPS	Research Intern	
	Information Sciences Institute, USC Mentor: Kristina Lerman	May 2018 - Aug 2018
	Max Plank Institute for Software Systems, Germany Mentor: Manuel Gomez-Rodriguez	May 2017 - Aug 2017
	FUSE Labs, Microsoft Research Mentor: Justin Cranshaw	May 2016 - Aug 2016
	Software Engineering Intern	
	Yahoo!, Mentors: Donald Swanson and Pradhan Pattnayak	May 2013 - Aug 2013
WORK EXPERIENCE	Graduate Teaching Assistant	
	School of Interactive Computing, Georgia Institute of Technology Courses:	
	Natural Language Processing	Aug 2020 - Dec 2020
	Social Computing	Aug 2019 - Dec 2019
	Natural Language Processing	Aug 2015 - Dec 2015
	Graduate Research Assistant	
	School of Interactive Computing, Georgia Institute of Technology Supervisor: Jacob Eisenstein	Jan 2016 - Jul 2020
	Supervisors: Jacob Eisenstein and Eric Gilbert	Aug 2013 - May 2014

Software Development Engineer

Yahoo!,

Jun 2014 - Jun 2015

Research Engineer

Oneirix Labs, Pune, India

Aug 2010 - Jul 2012

WORKING PAPERS

1. **Soni, S.**, and Eisenstein, J. “Nonparametric Semantic Change Detection using Contextualized Embeddings”
2. Ziems, C., He, B., **Soni, S.**, and Kumar, S. (2020) “Racism is a Virus: Anti-Asian Hate and Counterhate in Social Media during the COVID-19 Crisis” [arXiv:2005.12423](#) (under review)
3. Beel, J., Xiang, T., **Soni, S.**, and Yang, D. (2020) “Linguistic Characterization of Contentious Topics Online: Case Studies on Controversy in Abortion, Climate Change, and Gun Control” (under review)

JOURNAL PAPERS

1. **Soni, S.**, Klein, L., and Eisenstein, J. (2021) “Abolitionist Networks: Modeling Language Change in Nineteenth-Century Activist Newspapers” In the *Journal of Cultural Analytics*
2. **Soni, S.**, Lerman, K., and Eisenstein, J. (2020) “Follow the Leader: Documents on the Leading Edge of Semantic Change Get More Citations” In the *Journal of the Association for Information Science and Technology*

CONFERENCE PAPERS

1. Cranshaw, J., Elwany, E., Newman, T., **Soni, S.**, Kocielnik, R., Yu, B., Teevan, J. and Hernandez, A.M. (2017) “Calendar.help: Designing a Workflow-Based Scheduling Agent with Humans in the Loop” . In *Proceedings of the CHI Conference on Human Factors in Computing Systems*, Denver. (Acceptance rate ≤ 25 %)
2. Goel, R., **Soni, S.**, Goyal, N., Paparrizos, J., Diaz, F., Wallach, H. and Eisenstein, J. (2016) “The Social Dynamics of Language Change in Online Networks” In *International Conference on Social Informatics*, Seattle. (Acceptance rate ≤ 28 %)
3. **Soni, S.**, Mitra, T., Gilbert, E. and Eisenstein, J. (2014). “Modeling Factuality Judgments in Social Media Text” In *Proceedings of Association of Computational Linguistics*, Baltimore (Acceptance rate ≤ 30 %)

WORKSHOP PAPERS

1. **Soni, S.**, Klein, L., Eisenstein, J. (2020) “ A Lexical Semantic Leadership Network of Nineteenth Century Abolitionist Newspapers” in *Proceedings of the Fourth Workshop on NLP and CSS at EMNLP, 2020*
2. **Soni, S.**, Ramirez, S., Eisenstein, J. (2019) “ Detecting Social Influence in Event Cascades using Discriminative Rankers” in *Proceedings of the SIGKDD Workshop on Causal Discovery, 2019*

3. **Soni, S.**, Klein, L., Eisenstein, J. (2019) “Correcting Whitespace Errors in Digitized Historical Texts” in *Proceedings of the Joint SIGHUM Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature. 2019*, Minneapolis USA.
4. Tavabi, N., Bartley, N., Abeliuk, A., **Soni, S.**, Ferrara, E., Lerman, K. in *Companion Proceedings of The 2019 World Wide Web Conference*
5. **Soni, S.**, Ling Ramirez, S., Eisenstein, J. (2018) “Follow the money: Linking legislative co-sponsorship to a network of campaign donors” in *11th Annual Political Networks Conference and Workshops*, Washington DC USA.
6. Hohman, F., **Soni, S.**, Stewart, I., Stasko, J. (2017) “A Viz of Ice and Fire: An Interactive Visualization for Entertainment Videos” in *2nd Workshop on Visualization for the Digital Humanities*, Phoenix USA.

SERVICE

- Student Volunteer: ACL’ 14, NAACL’ 19, KDD’ 19, EMNLP’ 20
- Reviewer: ICWSM’ 17, ICWSM’ 18, EMNLP’ 17, COLING’ 17, ACL’ 18, WWW’ 19, EMNLP’ 20, NAACL’ 21

AWARDS

- Travel awards: ACL’ 14, Polnets’ 18, KDD’ 19.
- Google Summer of Code: 2010 and 2012.
- Winner of Best undergrad project, Bits Goa, India
- 2nd Runner up, Best undergrad project, IIT Kanpur, India.

PRESENTATIONS

- Follow the Leader: Documents on the Leading Edge of Semantic Change Get More Citations, at the *3rd Behavioral Insights from Text Conference, Philadelphia, University of Pennsylvania* Jan 2020
- Measuring and Modeling Language Change, at the *5th International Conference on Computational Social Science, Amsterdam, Netherlands* July 2019
- Multivariate Hawkes Process to Model Spread of Lexical Innovations in a Network, at the *3rd Workshop on Computational Social Science, Atlanta, GA* Dec 2015
- Informational Determinants of Shaming Intensity: A Text Analytic Study of Human Rights Reporting, at the *1st Workshop on Computational Social Science, Atlanta, GA* Nov 2013