# Sandeep B. Soni

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RESEARCH INTERESTS  Computational Social Science, Applied Machine Learning, Digital Humanities, Social Networks.

EDUCATION

**Georgia Institute of Technology**, Atlanta, GA

Ph.D., Computer Science,  *Expected:* Spring 2021
Advisor: Jacob Eisenstein

M.S., Computer Science (Machine Learning),  May 2014

**Pune Institute of Computer Technology**, Pune, India

B.E., Computer Engineering,  June 2010

INTERNSHIPS

**Research Intern**  May 2018 - Aug 2018

Information Sciences Institute, USC
Los Angeles, CA
Mentor: Kristina Lerman

**Research Intern**  May 2017 - Aug 2017

Max Plank Institute for Software Systems,
Kaiserslautern, Germany
Mentor: Manuel Gomez-Rodriguez

**Research Intern**  May 2016 - Aug 2016

Microsoft Research,
Redmond, WA
Mentor: Justin Cranshaw

**Software Engineering Intern**  May 2013 - Aug 2013

Yahoo!,
Sunnyvale, CA
Mentors: Donald Swanson and Pradhan Pattnayak

WORK EXPERIENCE

**Graduate Teaching Assistant**  Aug 2020 - Dec 2020

School of Interactive Computing,
Georgia Institute of Technology
Course: Natural Language Processing

**Graduate Research Assistant**  Jan 2016 - Jul 2020

School of Interactive Computing,
Georgia Institute of Technology
Supervisor: Jacob Eisenstein

**Graduate Teaching Assistant**            Aug 2019 - Dec 2019

School of Interactive Computing,
Georgia Institute of Technology
Course: Social Computing

**Graduate Teaching Assistant**            Aug 2015 - Dec 2015

School of Interactive Computing,
Georgia Institute of Technology
Course: Natural Language Processing

**Software Development Engineer**            Jun 2014 - Jun 2015

Yahoo!,
Sunnyvale, CA
Manager: Pradhan Pattnayak

**Graduate Research Assistant**            Aug 2013 - May 2014

School of Interactive Computing
Georgia Institute of Technology
Supervisor: Jacob Eisenstein and Eric Gilbert

**Research Engineer**            Aug 2010 - Jul 2012

Oneirix Labs,
Pune, India

WORKING
PAPERS

1. **Soni, S.**, Klein, L., and Eisenstein, J. (2020) "Lexical Semantic Leadership Networks in Nineteenth Century Abolitionist Newspapers" (under submission)

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 submission)

JOURNAL
PAPERS

1. **Soni, S.**, Lerman, K., and Eisenstein, J. (2020) "Follow the Leader: Documents on the Leading Edge of Semantic Change Get More Citations" arXiv:1909.04189 (conditionally accepted to the Journal of Association of 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 $\leq$ 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 $\leq$ 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 $\leq$ 30 %)

WORKSHOP
PAPERS

1. **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*

2. **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.

3. Tavabi, N., Bartley, N., Abeliuk, A., **Soni, S.**, Ferrara, E., Lerman, K. in *Companion Proceedings of The 2019 World Wide Web Conference*

4. **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.

5. 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.

- Reviewer: ICWSM' 17, ICWSM' 18, EMNLP' 17, COLING' 17, ACL' 18, WWW' 19, EMNLP' 20

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