Agrima Seth

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EDUCATION

University of Michigan, School of Information   Aug. 2019 – Expected 2025
Ph.D. Candidate, Ann Arbor, MI.   GPA:3.87/4
Advisor: Kentaro Toyama

University of Pennsylvania, School of Engineering and Applied Science   May 2018
Masters of Science in Engineering, Philadelphia, PA   GPA: 3.81/4
Major: Computer & Information Science, Advisor: Lyle Ungar

University of Pune   May 2016
Bachelor of Engineering, Pune, India   GPA: 79/100
Major: Information Technology

WORK EXPERIENCE

Research Intern, Microsoft Research   May - Dec 2023
Bengaluru, India

Research Intern, Snap Inc.   May - Dec 2022
Los Angeles, CA

Graduate Student Research Assistant, University of Michigan   Sept 2019-Aug 2020
Ann Arbor, MI

Graduate Student Instructor, University of Michigan   2020-2023
Ann Arbor, MI

Machine Learning Engineer, Morgan Stanley   Aug 2018 –July 2019
New York, NY

Machine Learning Intern, CERN   June – Aug 2017
European Organization for Nuclear Research, Geneva, Switzerland

PUBLICATIONS

CONFERENCE FULL PAPERS

- **Seth, A.,** Choudhary, M., Sitaram, S., Toyama, K., Vashistha, A., & Bali, K. How Deep Is Representational Bias in LLMs? The Cases of Caste and Religion. In submission 2025 CHI Conference on Human Factors in Computing Systems.

- **Seth, A.,** Bos, M. W.,& Cao, J. Cultural Values, Norm Conformity, and User Engagement with Ephemeral Social Media Content on Snapchat. In submission 2025 CHI Conference on Human Factors in Computing Systems.

- Hada, R., Husain, S., Gumma, V., Diddee, H., Yadavalli, A., **Seth, A.,**, ... & Bali, K. Akal Badi ya Bias: An Exploratory Study of Gender Bias in Hindi Language Technology. In The 2024 ACM Conference on Fairness, Accountability, and Transparency (FAccT '24) **Best Paper**

- **Seth, A.,** Ahuja, S., Bali, K., & Sitaram, S. (2024, May). DOSA: A Dataset of Social Artifacts from Different Indian Geographical Subcultures. In Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (pp. 5323-5337) (LREC-COLING 2024).

- [Hada, R., **Seth, A.**]∗, Diddee, H., & Bali, K. (2023, December). "Fifty Shades of Bias": Normative Ratings of Gender Bias in GPT Generated English Text. In Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing (pp. 1862-1876).   (∗ authors contributed equally)

- [Jurgens, D., **Seth, A.**]∗, Sargent, J., Aghighi, A., & Geraci, M. (2023, July). Your spouse needs professional help: Determining the Contextual Appropriateness of Messages through Modeling Social Relationships. In The 61st Annual Meeting Of The Association For Computational Linguistics   (∗ authors contributed equally)

- **Seth, A.,** Cao, J., Shi, X., Dotsch, R., Liu, Y., & Bos, M. W. (2023, April). Cultural Differences in Friendship Network Behaviors: A Snapchat Case Study. In Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (pp. 1-14).

- [**Seth, A.,** De, S.]∗, Arya, A., Wilkinson, S., Singh, S., & Pal, J. (2022, June). Closed Ranks: The Discursive Value of Military Support for Indian Politicians on Social Media. In Proceedings of the 2022 International Conference on Information and Communication Technologies and Development (pp. 1-11).   (∗ authors contributed equally)

- **Seth, A.,** Nayak, S., Mothe, J., & Jadhay, S. (2017, April). News dissemination on Twitter and conventional news channels. In International Conference on Enterprise Information Systems (Vol. 2, pp. 43-52). SciTePress.

Journal Papers

- Natraj, S., Bhide, M., Yap, N., Liu, M., **Seth, A.,** Berman, J., & Glorioso, C. (2023). COVID-19 activity risk calculator as a gamified public health intervention tool. Scientific Reports, 13(1), 13056.
- Pol, A. A., Cerminara, G., Germain, C., Pierini, M., & **Seth, A.** (2019). Detector monitoring with artificial neural networks at the CMS experiment at the CERN Large Hadron Collider. Computing and Software for Big Science, 3, 1-13.

Workshop Papers

- **Seth, A.,** Ahuja, S., Bali, K., & Sitaram, S. (2024, May). DOSA: A Dataset of Social Artifacts from Different Indian Geographical Subcultures. Non-archival, Workshop on Cross-Cultural Considerations in NLP (C3NLP 2024)
- **Seth, A.,** Ahuja, S., Bali, K., & Sitaram, S. (2024, May). DOSA: A Dataset of Social Artifacts from Different Indian Geographical Subcultures. Non-archival, First Workshop on Human-Centered Large Language Modeling Workshop (HuCLLM 2024)
- [Ananthasubramaniam, A., Chen, H., Yan, J., Alkiek, K., Pei, J., **Seth, A.,** ...]∗ & Jurgens, D. (2023, July). Exploring Linguistic Style Matching in Online Communities: The Role of Social Context and Conversation Dynamics. In Proceedings of the First Workshop on Social Influence in Conversations (SICon 2023) (pp. 64-74). (∗ authors contributed equally)

Others

- **Seth, A.** (2018). Studying Depression Using Linguistic Features From Multiple Social Media Sources (Master's dissertation, University Of Pennsylvania).
- **Seth, A.,** & Mishra, D. (2014). Comparative Study of Geometric and Image-Based Modelling and Rendering Techniques. arXiv preprint arXiv:1409.5024.

Teaching

Graduate Student Instructor

University of Michigan, School of Information Ann Arbor, MI

- SI 106: Programs, Information, and People, Undergraduate Course — Winter 2024
- SIADS 652: Network Analysis, Graduate Course — Spring 2021
- SI 485, SI 405: Information Analysis Project, Undergraduate Course — Fall 2021, Winter 2021,2022,2023
- SI 301 Models of Social Information Processing, Undergraduate Course — Fall 2020

Service

- ACL Rolling Review
- Reviewer EMNLP 2024
- Reviewer CSCW 2024
- TIST Rolling Review
- Program Committee for Workshop on Cross-Cultural Considerations in NLP(C3NLP) 2024
- Reviewer Social Media Influencer conference, 2022
- Student volunteer ACL conference 2023
- Student volunteer Social Media Influencer conference, 2022
- Student volunteer Grace Hopper Conference 2017
- UMSI Doctoral Executive Committee member 2022-2023

Awards

- Google PhD Fellowship Recipient 2024
- F+cube fellow 2024
- Best paper award FAccT 2024.
- Rackham Travel Grant 2022,2023,2024;
- Grace Hopper Scholarship 2015
- Honorable Mention (Finalist) for Snapchat Research Fellowship 2022.
- Honored on International Youth Day 2022, by TeachAids for efforts in debunking COVID-19 misinformation
- Ranked 2nd among 4789 students of Information Technology in all colleges of the University of Pune
- Awarded Tata Merit Scholarship and Academic Merit Scholarships for standing 1st in Undergraduate department (2012-2016)
- Gold Medal in Academics at Army Institute of Technology, Pune Information Technology Class of 2016.

Volunteering and Mentoring

• Worked with SaveScience to create COVID-19 Activity Risk Calculator	June 2021 - May 2022
• Worked with TeachAids Foundation to create a dashboard of debunked misinformation	June 2021 - May 2022
• Led Debunking Misinformation efforts at PathCheck Foundation	June 2021 - Oct 2021
• Peer Mentored a Ph.D. student	Fall 2021
• Mentored a Master's student	Winter 2020
• Led Makerspace workshops and was a member of **'Girls Who Code'** at Morgan Stanley.	Nov 2018 - July 2019

- **Mentored** a student at the Learn,IT Girl! program to create a Music recommendation System.

Technical Proficiencies

Languages: Python, R, C++, Java, LISP, JavaScript, Java Servlets, PHP, node.js, Matlab, C
Operating Systems: Windows, Unix, Linux
Libraries and Packages: NLTK, scikit-learn, Numpy, Scipy, Pandas, OpenGL, OpenCV, XML, JSON, Protobuf, Keras, Tensorflow, PyTorch, Spacy, Transformers
Databases & Tools: BigQuery, Git, NoSQL, MySQL, Cassandra, DynamoDb, Weka, Tableau
Web services: AWS
Crowdsourcing: Mechanical Turk, Prolific, Qualtrics