

Rochana Chaturvedi

Natural Language Processing Lab
University of Illinois Chicago

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Education

Ph.D. in Computer Science, University of Illinois Chicago, IL, USA 2021-2025 (*expected*)
Advisor: Prof. Barbara Di Eugenio
Coursework: Natural Language Processing, Causal Inference and Learning, Biomedical and Healthcare NLP, Computer Algorithms, Data and Text Mining, Graph Machine Learning, Statistical Natural Language Processing [GPA 4.0]
Masters in Computer Applications, Guru Gobind Singh Indraprastha University, Delhi, India 2009
Bachelors in Science (Honors in Physics), University of Delhi, Delhi, India 2006

Research Interests

Natural Language Processing, Machine Learning, and Causal Inference for Health and Social Science Domains

Publications

- **Chaturvedi, R.***, Chaturvedi, S.*, and Zheleva E. Bridging or Breaking: Impact of Intergroup Interactions on Religious Polarization, *WebConf 2024 (Forthcoming)*.
- **Chaturvedi, R.**, Rashid M., Layden B., Boyd, A., Cinar A., and Di Eugenio B. (2023). Sequential Representation of Sparse Heterogeneous Data for Diabetes Risk Prediction, In *2023 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*. Available at <https://dx.doi.org/10.1109/BIBM58861.2023.10385529>
- **Chaturvedi, R.*** and Chaturvedi, S.* (2023). It's all in the name: A character-based approach to infer religion. *Political Analysis*, Cambridge University Press, 1-16. Available at: <https://dx.doi.org/10.1017/pan.2023.6> (2023 Impact Factor: 9.015)
- **Chaturvedi R.**, Saachi, Dhani J.S., Joshi A., Khanna A., Tomar N., Duari S., Khurana A., and Bhatnagar V. 2020. Divide and Conquer: from complexity to simplicity for lay summarization, In *Proceedings of the First Workshop on Scholarly Document Processing*, pages 344–355. Available at: <https://aclanthology.org/2020.sdp-1.40.pdf>

(* indicates equal contribution)

Manuscripts in Review

- **Chaturvedi R.**, Bhattacharya A., and Yadav S. Perspective Aware Consumer Health Answer Summarization, submitted to *LREC-COLING 2024*.

Works in Progress

- “Opportunistic Screening using Clinical Notes and Structured EHR Data.”
 - Temporal Relation Extraction from Clinical Documents using External Knowledge Graph Alignment. (With Barbara Di Eugenio and Sourav Medya)
 - Interpretable Time Series Models for Disease Risk Prediction. (With Barbara Di Eugenio)

Work Experience

Research Assistant, University of Illinois Chicago	Jan 2022–Present
Teaching Assistant, University of Illinois Chicago	Aug–Dec 2021
Assistant Professor, University of Delhi, India	Jul 2011–August 2021
Associate Engineer, Objective Systems Integrators, Haryana, India	Jul 2009–Aug 2010

Internships

Summer Faculty Research Fellowship, Indian Institute of Technology, Delhi, India	May–Jul 2017
Intern, Associate Engineer, Objective Systems Integrators, Haryana, India	Jan 2009–Jun 2009
Intern, National Informatics Center, Parliament Informatics Division, Delhi, India	Jun–Jul 2008

Awards

NSF Student Travel Grant for IEEE International Conference on Bioinformatics and Biomedicine (BIBM)	2023
Student PI Attendee, NSF-NIH Smart and Connected Health Workshop	2022
CRA-WCP Grad Cohort for Women Travel Award	2022
Junior Research Fellowship (JRF), University Grants Commission-National Eligibility Test	2018
Certificate of Excellence, Objective Systems Integrators	2009

Academic Service

Reviewer:	LREC-COLING 2024, EACL 2023, ACL-IJCNLP 2022, Drug and Chemical Toxicology (journal), Machine Learning with Applications (journal)
Institutional service:	Member, Central Curriculum Design Team, Paper Setting Team, University of Delhi, India Member, various administrative committees, Keshav Mahavidyalaya, University of Delhi, India
Resource Person:	Postgraduate Teachers (PGT) Training Program at Kendriya Vidyalaya, Delhi, India

Technical Skills

Programming Languages:	Python, R, Matlab, Java, C++
Machine Learning and NLP Toolkits:	Pytorch, Keras, Tensorflow, Hugging Face Transformers, Deep Graph Library, Scikit-Learn, NLTK, spaCy, Gensim, cTAKES, MetaMap

References

Prof. Barbara Di Eugenio Director of Graduate Studies, Department of Computer Science, University of Illinois Chicago, IL <i>bdiugen@uic.edu</i>	Prof. Samir Khuller Department of Computer Science, McCormick School of Engineering, Northwestern University, Evanston, IL <i>samir.khuller@northwestern.edu</i>	Dr. Elena Zheleva Department of Computer Science, University of Illinois Chicago, IL <i>ezheleva@uic.edu</i>
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