

Anubrata Das

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Education

- **University of Texas at Austin** **Austin, Texas**
Ph.D. Student, School of Information *08/2018 – Present*
 - Committee: Dr. Matt Lease (*Chair*), Dr. Min Kyung Lee, Dr. Ken Fleischmann
 - Research: Developing Human-AI partnership for Curbing Misinformation Online: An Explainable Natural Language Processing Approach
 - GPA: **3.97/4.00** (Coursework)
 - **Graduate Courses:** Human-AI Interaction, Natural Language Processing, Research in Computational Linguistics, Information Retrieval, Machine Learning, Supervised Teaching in Information Science
 - **Indian Institute of Engineering Science and Technology Shibpur** **Kolkata, India**
Bachelor of Engineering, Department of Computer Science and Technology *07/2011 – 06/2015*
 - GPA: **8.43/10.00**
 - First Class with Honors
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Research Experience

- **University of Texas at Austin** **Austin, Texas**
Research Assistant, [Information Retrieval and Crowdsourcing Lab](#) *08/2018 – Present*
 - Advisor: Dr. Matthew Lease
 - Research Areas: *Explainable NLP, Crowdsourcing, Human-AI Interaction, Content Moderation, Automated Fact-Checking*
 - **Max Planck Institute of Informatics** **Saarbrücken, Germany**
Research Intern, Databases and Information Systems Group *06/2019 – 08/2019*
 - Advisor: Prof. Dr. Gerhard Weikum
 - Project: *Systematic discovery of bias: A case study on Airbnb Listings*
 - **Indian Institute of Management Calcutta** **Kolkata, India**
Research Intern, Management Information Systems Group *10/2012 – 09/2015*
 - Advisor: Dr. Somprakash Bandyopadhyay
 - Project: *Interactive crowdsourcing on social media for micro-level need assessment using for disaster management*
 - **Indian Institute of Technology Kharagpur** **West Bengal, India**
Research Intern, Complex Networks and Research Group *05/2013 – 07/2013*
 - Advisor: Dr. Saptarshi Ghosh
 - Project: *Prediction of Twitter trends using Machine Learning and Data Mining Techniques*
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Publications [[Google Scholar](#)]

Peer Reviewed Conference - Long Papers

- Gupta, S., Singh, G., **Das, A.**, & Lease, M. (2021, July). *Pareto Solutions vs Dataset Optima: Concepts and Methods for Optimizing Competing Objectives with Constraints in Retrieval*. In Proceedings of the 2021 ACM SIGIR International Conference on Theory of Information Retrieval (pp. 43-52). (**51%** acceptance rate)
- Das, A.**, Dang, B., & Lease, M. (2020, October). *Fast, Accurate, and Healthier: Interactive Blurring Helps Moderators Reduce Exposure to Harmful Content*. In Proceedings of the AAAI Conference on Human Computation and Crowdsourcing (Vol. 8, No. 1, pp. 33-42). (**27%** acceptance rate)
- Das, A.**, Anjum, S., & Gurari, D. (2019). *Dataset bias: A case study for visual question answering*. Proceedings of the Association for Information Science and Technology, 56(1), 58-67.

Peer Reviewed Conference - Short Papers

Journal Articles

Ekstrand, M. D., **Das, A.**, Burke, R., & Diaz, F. *Fairness and Discrimination in Information Access Systems*. Foundations and Trends in Information Retrieval (To Appear) ([arxiv preprint](#)) (2021) (100 pages). (**SJR Score 0.73**)

Book Chapters

Ekstrand, M. D., **Das, A.**, Burke, R., & Diaz, F. *Fairness in Recommendation*. Recommender Systems Handbook (To Appear) (2021) (40 pages).

Peer Reviewed Workshops

Das, A., Mehta, K., & Lease, M. (2019). *CobWeb: A Research Prototype for Exploring User Bias in Political Fact-Checking*. In ACM SIGIR Workshop on Fairness, Accountability, Confidentiality, Transparency, and Safety in Information Retrieval (FACTS-IR), 2019. (8 pages)

Preprints / Informal Publications

Singh, P., **Das, A.**, Li, J. J., & Lease, M. (2021, September). *The Case for Claim Difficulty Assessment in Automatic Fact Checking* (8 pages).

Das, A., Lee, S., Nguyen, T. A., Kharosekar, A., Krishnan, S., Krishnan, S., Tate, E., Wallace, B. C., & Lease, M. *ExFacto: An Explainable Fact-Checking Tool*. In Knight Research Network Tool Demonstration Day, 2021. Presentation abstract.

Das, A., & Lease, M. (2019). *A Conceptual Framework for Evaluating Fairness in Search*. (4 pages) arXiv:1907.09328.

Undergraduate Work

Das, A., Mallik, N., Bandyopadhyay, S., Bit, S. D., & Basak, J. (2016, March). *Interactive information crowdsourcing for disaster management using SMS and Twitter: A research prototype*. In 2016 IEEE International Conference on Pervasive Computing and Communication Workshops (PerCom Workshops) (pp. 1-6). IEEE.

Das, A., Roy, M., Dutta, S., Ghosh, S., & Das, A. K. (2014, December). *Predicting trends in the twitter social network: A machine learning approach*. In International Conference on Swarm, Evolutionary, and Memetic Computing (pp. 570-581). Springer, Cham.

Funding

- **Graduate School Fellowship** 08/2018 – 05/2019
 - Awarded by the Graduate School, University of Texas at Austin
- **UT Good Systems Grand Challenge** - Graduate Student Grant Proposal. **Anubrata Das**, Chenyan Jia, Shivam Garg. Supervisor: Dr. Min Kyung Lee. *Designing algorithmic nudge to reduce inadvertent COVID-19 misinformation sharing on social media*. Awarded - \$7000.

Presentations

Invited Talks

Commercial Content Moderation and Psychological Well-Being

- TxHCI - A seminar organized by HCI Researchers across Universities in Texas, 10/02/2020
- Amazon AWS Science, 10/14/2020
- Amazon Human-in-the-loop (HILL) services team, 10/23/2020
- ACM SIGCHI Mumbai Chapter, 26th Meet, 08/28/2021

Oral Presentations

Das, A. ProtoTex: Explaining Model Decisions with Prototype Layers. Research Colloquium, School of Information, University of Texas at Austin. November 2021. Lightning Talk.

Das, A. ProtoBART: Explaining Model Decisions with Prototype Layers. TACCSTER: TACC Symposium for Texas Researchers. September 2021. Lightning Talk.

Das, A. Fast, Accurate, and Healthier: Interactive Blurring Helps Moderators Reduce Exposure to Harmful Content. AAAI HCOMP 2020. Virtual Conference.

Das, A. CobWeb: A Research Prototype for Exploring User Bias in Political Fact-Checking. ACM SIGIR Workshop on Fairness, Accountability, Confidentiality, Transparency, and Safety in Information Retrieval (FACTS-IR), 2019. Paris, France.

Awards and Honors

- Annual Diversity & Inclusion Best Student paper award 05/2019
 - Dataset Bias: Predicting and Understanding Implications for Visual Question Answering
 - Awarded by the School of Information, University of Texas at Austin
 - Spot Award - [Mu Sigma Inc.](#) 2016
 - Awarded by the Innovation and Development Team
 - Interactive visualization for Stock Market as a network
 - Class of 1990 Award: Excellence in Leadership 02/2014
 - Awarded by the Global Alumni Association of BESU (now [IIEST](#))
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Teaching and Mentoring

- Teaching Assistant *Fall 2020*
 - INF385T.3 / CS395T: Human Computation and Crowdsourcing by Dr. Matt Lease
 - Three 60-minutes Tutorials on Amazon Sagemaker Ground Truth for collecting data annotations
 - Co-Supervising undergraduate research group with Dr. Matt Lease *06/2020 - Present*
 - A group of ten students
 - Working on fact-checking using NLP and Human-computation methods
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Service

- Reviewer
 - ACL Rolling Review 2022
 - CHI 2021, 2022
 - CSCW 2021, 2022
 - The Web Conference 2021
 - Annual Meeting of the Association for Information Science and Technology: 2019, 2020
 - Journal: Information Processing and Management
 - Committee
 - Assistant Professor Hiring Committee 2020-2021
 - Doctoral Studies Committee, School of Information, 2019-2020
 - Student Volunteer
 - CSCW 2019
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Industry Experience

- **Microsoft** **Hyderabad, India**
Software Engineer *04/2018 – 07/2018*
 - Build, debug and maintain a marketing management tool for Microsoft Universal Store
- **Microsoft** **Hyderabad, India**
Associate Consultant *11/2016 – 04/2018*
 - Develop solutions for enterprise search for a Fortune 500 oil and gas corporation

- **Mu Sigma**
Decision Scientist

Bangalore, India
08/2015 – 10/2016

- Design and build research prototypes for algorithmic trading using machine learning
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Skills

Research Methodologies: Experimental Design, User Study, Crowdsourcing,
Natural Language Processing, Machine Learning, Inferential Statistics

Programming Languages: Python, R, JavaScript, SQL

Technologies: Flask, Pytorch, Scikit-Learn, NLTK, SciPy, NumPy, Git

Survey Tools: Qualtrics

Crowdsourcing: [Amazon Mechanical Turk](#), [AWS Sagemaker Ground Truth](#), [AWS Augmented AI](#)

Languages: Fluent in English and Bengali, Knowledge of Hindi
