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
  - Broad Research Interests: Human-AI Interaction; Natural Language Processing; Fairness, Accountability and Transparency
  - GPA: **3.97**/4.00 (Coursework)
  - **Graduate Courses**: Information Retrieval, Natural Language Processing, Research in Computational Linguistics, Machine Learning, Human-AI Interaction, 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

Professional 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*
- **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*
- **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** — **Bangalore, India**
  Decision Scientist — *08/2015 – 10/2016*
  - Design and build research prototypes for algorithmic trading using machine learning
- **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*

Publications [Google Scholar]

Peer Reviewed Conference

[1] **Anubrata Das**, Brnadon Dang and Matthew Lease. *Fast, Accurate, and Healthier: Interactive Blurring Helps Moderators Reduce Exposure to Harmful Content.* In Proceedings of the 8th AAAI Conference on Human Computation and Crowdsourcing (HCOMP), 2020.

[2] **Anubrata Das**, Samreeen Anjum and Danna Gurari. *Dataset Bias: A Case Study for Visual Question Answering*. Proceedings of the Association for Information Science and Technology (ASIST), 56(1), 58-67, 2019.

Journal Articles

[3] Michael D. Ekstrand, **Anubrata Das**, Robin Burke, Fernando Diaz. *Fairness and Discrimination in Information Access*. Foundations and Trends in Information Retrieval (In Progress) (2021).

Book Chapters

[4] Michael D. Ekstrand, **Anubrata Das**, Robin Burke, Fernando Diaz. *Fairness in Recommendation*. Recommender Systems Handbook (Conditionally Accepted) (2021).

Peer Reviewed Workshops

[5] **Anubrata Das**, Kunjan Mehta, and Matthew Lease. *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.

Preprints / Informal Publications

[6] **Anubrata Das** and Matthew Lease. *A Conceptual Framework for Evaluating Fairness in Search*. Technical Report, University of Texas at Austin. arXiv preprint arXiv:1907.09328 (2019).

Undergraduate Work

[7] **Anubrata Das**, Neeratyoy Mallik , Somprakash Bandyopadhyay, Sipra Das Bit, Jayanta Basak. *Interactive information crowdsourcing for disaster management using SMS and Twitter: A research prototype.* IEEE International Conference on Pervasive Computing and Communication Workshops (PerCom Workshops) (2016).

[8] **Anubrata Das**, Moumita Roy, Soumi Dutta, Saptarshi Ghosh, Asit Kumar Das. *Predicting Trends in the Twitter Social Network: A Machine Learning Approach.* International Conference on Swarm, Evolutionary, and Memetic Computing (pp. 570-581). Springer, Cham. (2014).

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

Grants

- **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.

Teaching and Mentoring

- Teaching Assistant *Fall 2020*
  - INF385T.3 / CS395T: Human Computation and Crowdsourcing by Dr. Matt Lease
- 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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Awards and Honors

- Graduate School Fellowship *08/2018 – 05/2019*
  - Awarded by the Graduate School, University of Texas at Austin
- 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)

Service

- Reviewer
  - CHI 2021, The Web Conference 2021
  - Annual Meeting of the Association for Information Science and Technology: 2019, 2020
- Committee
  - Assistant Professor Hiring Committee 2020-2021
  - Doctoral Studies Committee, School of Information, 2019-2020
- Student Volunteer
  - CSCW 2019

Skills

Research Methodologies: Experimental Design, User Study, Crowdsourcing, Natural Language Processing, Information Retrieval, Machine Learning, Inferential Statistics
Programming Languages: Python, R, JavaScript, SQL
Technologies: Flask, Pytorch, Scikit-Learn, NLTK, SciPy, NumPy, Keras, Weka, Git
Survey Tools: Qualtrics
Crowdsourcing: Amazon Mechnaical Turk, AWS Sagemaker Ground Truth, AWS Augmented AI
Languages: Fluent in English and Bengali, Knowledge of Hindi
