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 Computation; 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

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. To appear

[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 (To Appear) (2021).

Book Chapters

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

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

Academic Experience

- **Max Planck Institute of Informatics** **Saarbrücken, Germany**
  Visiting Student, 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**
  Visiting Student, 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**
  Visiting Student, 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*

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

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
Natural Languages: Fluent in English and Bengali, Knowledge of Hindi