Ayesha Bhimdiwala

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EDUCATION-

Ph. D. Information Studies. University of Texas at Austin. *Fall 2021 – Present*

M.S. Ed. in Learning Sciences. Indiana University, Bloomington. (GPA 4.00) *2019 – 2021*

M.S. Data Science. Indiana University, Bloomington. (GPA 3.50) *2017 – 2019*

B.Eng. Information Technology. University of Mumbai, India. (GPA 8.01/10; WES GPA:3.5) *2012 – 2016*

PUBLICATIONS-

An asterisk (*) indicates co-first authorship: these authors contributed equally to the work.

Peer-reviewed articles

P2   **Bhimdiwala, A.***, Neri, R.C*, & Gomez, L. (2021). Improving the Design and Implementation of Artificial Intelligence in Education through Collaborative and Systematic Inquiry. *International Journal of Artificial Intelligence in Education.* doi: 10.1007/s40593-021-00278-8

P1   Uttamchandani, S., **Bhimdiwala A.,** Hmelo-Silver C (2020). Finding a Place for Equity in CSCL: A Lever for Sustained Educational Change. *International Journal of Computer-Supported Collaborative Learning.* doi: 10.1007/s11412-020-09325-3.

Presentations

S2   **Bhimdiwala A.**, (2020). Implications of Sociopolitical and Historical Contexts on The Identity and Learning of South Asian Muslims. *Learning Sciences Graduate Student Conference 2020.*

S1   Rodgers K., Feng C., **Bhimdiwala A.,** Gok S., Glazewski K., Hmelo-Silver C., Brush T., Lee S., (2020). Supporting Teacher Orchestration of Collaborative Inquiry in Game-Based Learning with Intelligent Assistants. *Association for Educational Communications and Technology 2020.*

RESEARCH EXPERIENCE-

R&D Intern. ETS AI Research Labs. *Summer 2021*

- Researched and implemented inclusive design strategies to keep neurodiverse and differently-abled learner needs in designing AI-based learning experiences.
- Completed a literature review on neurodiversity, communication technologies, and design methods.
- Provided solution-specific design recommendations through UX and Research efforts (recruitment, interviews, and synthesis).

Independent Student Researcher. Authentic User Experience Lab. *Fall 2020 – Spring 2021*

- Researched neurodiverse experience with asynchronous computer-mediated communication products affect their work productivity and comfort.
- Led participant recruitment, creating semi-formal interview protocol, interviewing participants, and analyzing data to understand neurodivergent needs.

Graduate Student Fellow/Assistant. Center for Research on Learning & Technology. *Fall 2019 – Spring 2021*

- Designed a rubric to analyze kids' Productive Disciplinary Engagement (behavioral, socioemotional, metacognitive, collaborative, and disciplinary) levels in STEM activities.
- Conducted and analyzed teacher interviews and focus groups (e.g., listening to interviews, distilling highlights, transcript analysis) to inform learning technology decisions.

CO-CURRICULAR ACTIVITIES-

- Invitation to attend Parable of AI in/from the Global South Storytelling Workshop, Data & Society. *Fall 2021*
- Designs of the Oppressed by **Universidade Tecnológica Federal do Paraná - PR**. *Summer 2021*
- Colloquium Committee. Doctoral Student Association, School of Information – UT Austin. *Fall 2021*
- Academic Advisor at Forum on International Graduate Students. *Spring 2020*
- Graduate Professional Student Government (GPSG) Department Representative. *Fall 2019 – Spring 2020*
- Leader - Appointed as the Vice-Chairperson followed by Chairperson for ACM-MHSS chapter, led a student team of 90 members to organize successful events in Technology and Career Innovation. *Spring 2014 – Summer 2016*
- Computer Science Teacher - Taught CS fundamentals to low-income and under-resourced schools with Aashansh Foundation, Mumbai, IN. *Winter 2015*

EDITORIAL REVIEW-

- Peer Reviewer, Learning Sciences Graduate Student Conference. *Summer 2020*
- Peer Reviewer, International Conference of the Learning Sciences. *Fall 2019*
- Peer Reviewer, Connected Learning Summit 2019. *Spring 2019*
- Committee Reviewer, Mentoring Circles - Grace Hopper Celebration 2019. *Spring 2019*

PROFESSIONAL AFFILIATIONS-

- ACM SIGCHI. *Spring 2021 – Present*
- International Society of the Learning Sciences. *Summer 2020 – Summer 2021*
- Mechanical Design for Social Good. *Spring 2020 – Present*
- AnitaB.Org Systers. *Spring 2018 – Present*

FUNDING AND AWARDS-

- University of Texas at Austin - Kilgarlin Fellowship, *Fall 2021 – Summer 2022*
- University of Texas at Austin - Recruitment Fellowship, *Fall 2021 – Summer 2022*
- Gary Marsden Travel Award, ACM SIGCHI, *Spring 2021*
- Carnegie Mellon University, LearnLab Summer school, *Summer 2020*
- Indiana University Bloomington - Proffitt Fellowship. *Fall 2019 – Spring 2020*
- Indiana University Bloomington - Graduate Assistantship. *Fall 2017 – Spring 2019*
- Indiana University Bloomington Travel Fellowship - Grace Hopper Celebration. *Fall 2018*
- Data Science Admission Fellowship. *Fall 2017*
- Lotus Trust Scholarship & Pirojshah Godrej Scholarship - Study Abroad. *Fall 2017*

SKILLS-

- **Programming (Scripting) Languages:** Python, R, SAS, Stata, Unix shell, Git version control, Linux
- **Methods:** Survey, Interviews, Qualitative Analysis (Meaning Field Analysis, Reconstructive Horizon Analysis, Role Analysis), Quantitative Analysis (Multivariate Regression, Principal Component Analysis, Factor Analysis)
- **Tools:** Microsoft Excel, Miro, Figma, Google Suite, Qualtrics, SurveyMonkey, MySQL, MongoDB

PROFESSIONAL EXPERIENCE-

National Student Clearinghouse Fellow. Center for Postsecondary Research. *Fall 2017 - Spring 2019*
- Analyzed 100 million survey results to be used by the core research team in writing Signature reports on graduation trends across 3,600 institutions in the US.
- Made a reproducible workflow to clean, manipulate, and visualize data using SAS and R programming.
- Communicated and presented written findings (six reports) in collaboration with senior researchers.
- Prepared workshop materials and trained research analysts on using the in-house technologies for data analysis.

Data Science Executive. Nielsen**,** Vadodara, India. *Spring 2016*
- Prepared survey questionnaire to collect data; performed sampling, stratification, and estimations to create reports for various clients in the consumer industry.
- Automated routine activities like logic, trend, and quality check parameters for large data using R programming that decreased manual efforts by **20**%.

Data for Social Change - Intern, Technology. Teach for India (TFI), Mumbai, India. *Summer 2016*
- Conducted three semi-structured interviews of TFI Program Managers and Fellows to understand user requirements and provide technical support.
- Collaborated with the UI and UX team to design a user-friendly application along with interpretable visualizations.

OTHER EXPERIENCES-

Big Data Project Intern. Tata Institute of Fundamental Research, Mumbai, India. *Fall 2015 - Spring 2016*
- Developed a network data analytics web application to detect any anomalies in the network that allowed the administrator to identify network issues in real-time as well as view user-level historical network usage.

Tutor. ZM Tutors, Mumbai, India. *Summer 2013 - Summer 2016*
- Created Mathematics and Science lesson plans for students appearing for the Maharashtra State Board exam and taught students from different schools and socio-economic backgrounds.
- Completed two levels of Abacus teacher training at SIP Abacus [link]. Led Abacus and Amal workshops along with brain development activities for 5-12 years old kids. Conducted advising sessions with parents and students to provide feedback.