CURRICULUM VITAE

Md Dilshadur Rahman

Postdoctoral Research Fellow, HIDIVE Lab, Harvard Medical School

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RESEARCH INTERESTS Data Visualization & Visual Computing · Human-Computer Interaction · Human-AI Interaction in Visualization · Computing Education

EDUCATION

Aug 2022 – Sep 2026 **Doctor of Philosophy in Computer Science**
Kahlert School of Computing & Scientific Computing and Imaging (SCI) Institute, University of Utah
Dissertation: *Design Space and Tooling for Annotations in Visualizations*
Advisor: Dr. Paul Rosen

Aug 2022 **Master of Science in Computer Science**
Department of Computer Science and Engineering, University of South Florida

Mar 2017 **Bachelor of Science in Computer Science and Engineering**
Department of Computer Science and Engineering, Khulna University of Engineering and Technology (KUET)

RESEARCH APPOINTMENTS

Oct 2026 – Present **Postdoctoral Research Fellow**
HIDIVE Lab, Harvard Medical School
Supervisor: Dr. Nils Gehlenborg

Aug 2022 – Sep 2026 **Research Assistant**
Scientific Computing and Imaging Institute, University of Utah
Supervisor: Dr. Paul Rosen

Aug 2021 – Aug 2022 **Research Assistant**
Department of Computer Science & Engineering, University of South Florida
Supervisor: Dr. Paul Rosen

TEACHING APPOINTMENTS

Direct Classroom Teaching

Aug 2021 – May 2022 **Graduate Instructor**
University of South Florida, Computer Science & Engineering
IT Computer Networking Lab (Fall 2021) · Computer Architecture Lab (Spring 2022)

May 2020 – Aug 2020

Instructor of Record

University of Arizona, Computer Science

Introduction to Computer Programming II (Summer 2020)

Sept 2017 – Aug 2019

Lecturer

Daffodil International University, Computer Science & Engineering

Discrete Mathematics · Data Structures · Programming and Problem Solving · Systems Analysis and Design · Operating Systems · Data Communications

May 2017 – Sept 2017

Lecturer

University of Information Technology and Sciences, Computer Science & Engineering

Microprocessors · Computer Architecture · Database System Management

Teaching Support Roles

Aug 2024 – Dec 2024

Graduate Teaching Assistant

University of Utah, Kahlert School of Computing

Visualization for Data Science (Fall 2024)

Jan 2023 – May 2023

Teaching Mentee

University of Utah, Kahlert School of Computing

Computational Geometry (Spring 2023)

Aug 2021 – May 2022

Graduate Teaching Assistant

University of South Florida, Computer Science & Engineering

Interactive Data Visualization (Spring 2022) · IT Security Systems (Fall 2021)

Jan 2021 – Aug 2021

Graduate Teaching Assistant

University of Arizona, Computer Science

Data Visualization (Spring 2021) · Introduction to Computer Programming II (Summer 2021)

PUBLICATIONS

Journal articles

J1

Designing for Engagement: A Comparison of Canvas and a Visual Peer Review Dashboard

Alon Friedman, **Md Dilshadur Rahman**, Ly Dinh, Paul Rosen

ACM Transactions on Computing Education, 2026

doi:10.1145/3800962

J2 **Designing Annotations in Visualization: Considerations from Visualization Practitioners and Educators**

Md Dilshadur Rahman, Devin Lange, Ghulam Jilani Quadri, Paul Rosen

Computer Graphics Forum, 2026 · Proc. of Eurographics/IEEE VGTC Conference on Visualization (EuroVis)

doi:10.1111/cgf.70435 · Project site

J3 **A Qualitative Analysis of Common Practices in Annotations: A Taxonomy and Design Space**

Md Dilshadur Rahman, Ghulam Jilani Quadri, Bhavana Doppalapudi, Danielle Szafir, Paul Rosen

IEEE Transactions on Visualization and Computer Graphics (IEEE TVCG), 2025 · Proc. of IEEE VIS 2024

22% acceptance rate · doi:10.1109/TVCG.2024.3456359 · Project site

J4 **A Survey on Annotations in Information Visualization: Empirical Studies, Applications, and Challenges**

Md Dilshadur Rahman, Bhavana Doppalapudi, Ghulam Jilani Quadri, Paul Rosen

IEEE Transactions on Visualization and Computer Graphics (IEEE TVCG), 2025

doi:10.1109/TVCG.2025.3600957 · Project site

J5 **Exploring Annotation Taxonomy in Grouped Bar Charts: A Qualitative Classroom Study**

Md Dilshadur Rahman, Ghulam Jilani Quadri, Danielle Szafir, Paul Rosen

Information Visualization, 2025

doi:10.1177/14738716241270247 · Project site

Conference and workshop papers

C1 **Guidelines Are Not Rules: Characterizing Terminologies around Visualization Design Guidelines**

Anna L. Chinni, **Md Dilshadur Rahman**, Bon Adriel Aseniero, Petra Isenberg, Kushin Mukherjee, Ghulam Jilani Quadri, Paul Rosen, Karen B. Schloss, Daniel Weiskopf

IEEE BELIV (co-located with IEEE VIS), 2026

Accepted; to appear · arXiv:2608.27842 · Project site

C2 **Chart-Supported or Model-Supplied? Examining MLLM-Generated Claims for Accessible Visualization**

Ishrat Jahan Eliza, **Md Dilshadur Rahman**

Accessible Data Visualization Workshop at IEEE VIS, 2026

Accepted; to appear · arXiv:2607.25021

C3 **A Case Study in Accessible Redesign of a Wastewater Dashboard**

Tingying He, Jake Wagoner, Md Rahat-uz-Zaman, **Md Dilshadur Rahman**, Willy Ray, George G. Vega Yon, Matthew Samore, Alexander Lex, Paul Rosen

Accessible Data Visualization Workshop at IEEE VIS, 2026

Accepted; to appear · arXiv:2609.25273

C4 **FocalLens: Visualizing Narratives through Focalization**

S. M. Raihanul Alam, **Md Dilshadur Rahman**, Md Naimul Hoque

arXiv preprint, 2026

arXiv:2604.14456 · Website

C5 **AnnoGram: An Annotative Grammar of Graphics Extension**

Md Dilshadur Rahman*, Md Rahat-uz-Zaman*, Andrew McNutt, Paul Rosen

IEEE Visualization and Visual Analytics (IEEE VIS), 2025 · Short Paper

* Co-first authors · arXiv:2507.04236 · Project site

C6 **Seeing is Believing: The Role of Scatterplots in Recommender System Trust and Decision-Making**

Bhavana Doppalapudi, **Md Dilshadur Rahman**, Paul Rosen

International Symposium on Visual Computing (ISVC), 2024

doi:10.1007/978-3-031-77392-1_32

C7 **Striking the Right Balance: Systematic Assessment of Evaluation Method Distribution Across Contribution Types**

Feng Lin, Arran Zeyu Wang, **Md Dilshadur Rahman**, Danielle Szafir, Ghulam Jilani Quadri

IEEE BELIV (co-located with IEEE VIS), 2024

doi:10.1109/BELIV64461.2024.00020

C8 **EduVis: 2nd IEEE VIS Workshop on Visualization Education, Literacy, and Activities**

Fateme Rajabiyazdi, Mandy Keck, Christina Stoiber, Jonathan Roberts, Hari Subramonyam, Lily Ge, Magdalena Boucher, Benjamin Bach, Lonni Besancon, Mathis Brossier, Anders Ynnerman, Konrad Schonborn, Alon Friedman, Bo Pei, Ly Dinh, Kevin Hawley, Julia Woodward, Paul Rosen, **Md Dilshadur Rahman**, Yan Chen

IEEE VIS, 2024

EduVis Workshop 2024

C9 **Enhancing Student Feedback Using Predictive Models in Visual Literacy Courses**

Alon Friedman, Kevin Hawley, Paul Rosen, **Md Dilshadur Rahman**

IEEE Engineering Education Conference (IEEE EDUCON), 2024

doi:10.1109/EDUCON60312.2024.10578647

C10 **Exploring Annotation Strategies in Professional Visualizations: Insights from Prominent US News Portals**

Md Dilshadur Rahman, Ghulam Jilani Quadri, Paul Rosen

IEEE VIS Workshop on Visualization for Communication (VisComm), 2023

doi:10.31219/osf.io/fd8zj · VisComm Workshop 2023 · Project site

C11 **A Qualitative Evaluation and Taxonomy of Student Annotations on Bar Charts**

Md Dilshadur Rahman, Ghulam Jilani Quadri, Paul Rosen

IEEE VIS Workshop on Visualization for Communication (VisComm), 2022

doi:10.31219/osf.io/e5vfy · VisComm Workshop 2022

C12 **A Framework for Implementing Join Operation Between Multiple MOLAPs**

Md Dilshadur Rahman, MAA Hossain, KMA Hasan

IEEE International Conference on Electrical, Computer and Communication Engineering (IEEE ECCE), 2019

doi:10.1109/ECACE.2019.8679373

Posters

P1 **How Do Professionals Use Annotations in Visualizations?**

Md Dilshadur Rahman, Ghulam Jilani Quadri, Paul Rosen

IEEE VIS Poster Proceedings, 2024

IEEE VIS 2024 Poster · Project site

P2 **Seeing is Believing: The Role Recommender System Accuracy Plays on Trust in Scatterplots**

Bhavana Doppalapudi, **Md Dilshadur Rahman**, Paul Rosen

IEEE VIS Poster Proceedings, 2024

IEEE VIS 2024 Poster

P3 **A Qualitative Evaluation and Taxonomy of Bar Chart Annotations**

Md Dilshadur Rahman, Ghulam Jilani Quadri, Paul Rosen

IEEE VIS Poster Proceedings, 2022

IEEE VIS 2022 Poster · Project site

Under review and in preparation

R1 **Interfaces for Judgment: Scaffolding Evaluative Reasoning in Interaction**

Alon Friedman, **Md Dilshadur Rahman**, Ly Dinh, Julia Woodward, Bo Pei, Paul Rosen

Under Review in ACM *Transactions on Computer-Human Interaction*, 2026

R2 **AnnoBench: A Benchmark for Visualization Annotation Generation**

Md Rahat-uz-Zaman*, **Md Dilshadur Rahman***, Andrew McNutt, Paul Rosen

Under Review, 2026

* Co-first authors · Website

R3 **Shaping Evaluative Analysis Through Data Visualization Design: A Study of Visual Nudges**

Alon Friedman, **Md Dilshadur Rahman**, Paul Rosen

Under Review, 2026

R4 **Influence of Visualizing Class Balance Information on Recommendations' Trust and Decision-Making**

Bhavana Doppalapudi, **Md Dilshadur Rahman**, Paul Rosen

In preparation, 2026

HONORS & AWARDS

2026	Selected as a Future Leader of AI, ACM AI Leadership Summit, with NSF travel support
2026	Kahlert Impact Prize for Research & Academic Service Excellence, Kahlert School of Computing, University of Utah
2026	Special recognition for outstanding reviews (Posters), ACM CHI
2025	Special recognition for outstanding reviews (Late Breaking Works), ACM CHI
2023	Doctoral Colloquium Fellowship, IEEE VIS
2023	~$4,000 in NSF travel funding, Doctoral Colloquium at IEEE VIS
2022	~$500 travel award from Associated Students of the University of Utah, IEEE VIS
2021	~$1,500 in NSF travel funding, Topological Data Visualization Workshop, University of Iowa
2016–17	University Dean's Award, Khulna University of Engineering and Technology
2015–16	University Dean's Award, Khulna University of Engineering and Technology

ACADEMIC SERVICE & LEADERSHIP

Conference & Workshop Organization

2026, 2025	*Technical Program Committee Member*, IEEE Global Engineering Education Conference (IEEE EDUCON)
2026, 2025	*Program Committee Member (Short Papers)*, IEEE Visualization and Visual Analytics (IEEE VIS)
2025	*Co-Organizer*, IEEE VIS Workshop on Visualization for Communication (VisComm), IEEE VIS
2025	*Committee Member*, Talk Submissions, Outlier Conference
2025	*Committee Member (Judge)*, Visual Data Storytelling Contest, IEEE PacificVis
2024	*Co-Organizer*, IEEE VIS Workshop on Visualization Education, Literacy, and Activities (EduVis)
2024	*Student Volunteer*, IEEE VIS
2013	*Student Volunteer*, International Conference of Electrical, Information, and Communication Technology, KUET

Peer Review

ACM CHI 2026, 2025
ACM IUI (Posters) 2026
IEEE VIS 2026, 2025
ACM Transactions on Computing Education 2026
Communications of the ACM 2026
ACM DIS 2025
IEEE/EuroGraphics EuroVis 2025
Int'l Journal of Human-Computer Interaction 2025
Int'l Journal of Human-Computer Studies 2026
IEEE PacificVis 2025
ACM CUI 2025
IEEE EDUCON 2026, 2025
OzCHI 2025, 2024
IEEE TVCG 2026, 2024
ACM CSCW 2024
IEEE EduVis 2024
IEEE ECCE 2024

Other Volunteering

2024, 2023 — *Student Volunteer*, Prospective CS Graduate Student Visit, University of Utah

2020 — *Student Volunteer*, Hack Arizona

2020 — *Student Volunteer*, Prospective CS Graduate Student Visit, University of Arizona

2014–2016 — *Student Coordinator*, National High School Programming Contest; led the student volunteer team

2016 — *Organizing Committee Member*, Intra-Department Idea Contest, KUET

2016, 2015 — *Organizing Committee Member*, Intra-Department Programming Contest, KUET

TALKS

2026 — **Designing Annotations in Visualization: Considerations from Visualization Practitioners and Educators**
SUMMIT TALK *Cluster: The Practitioners' Summit, IEEE VIS, Boston, Massachusetts, USA*

2026 — **A Survey on Annotations in Information Visualization: Empirical Studies, Applications, and Challenges**
CONFERENCE TALK *IEEE VIS, Boston, Massachusetts, USA*

2026 — **Guidelines Are Not Rules: Characterizing Terminologies around Visualization Design Guidelines**
CONFERENCE TALK *BELIV Workshop, IEEE VIS, Boston, Massachusetts, USA*

2026 — **Annotations in Visualizations**
INVITED LECTURE *Furman University Computer Science, Greenville, South Carolina, USA*

2026 — **Towards AI-enabled Visualization Authoring and Communication**
SUMMIT TALK *ACM AI Leadership Summit, Atlanta, Georgia, USA*

2026 — **Designing Annotations in Visualization: Considerations from Visualization Practitioners and Educators**
CONFERENCE TALK *EuroVis, Nottingham, UK*

2026 **Design Space and Tooling for Annotations in Visualizations**
INVITED TALK *Harvard Medical School, Boston, Massachusetts, USA*

2026 **Design Space and Tooling for Annotations in Visualizations**
INVITED TALK *Oak Ridge National Laboratory, Tennessee, USA*

2024 **A Qualitative Analysis of Common Practices in Annotations: A Taxonomy and Design Space**
CONFERENCE TALK *IEEE VIS, Virtual*

2024 **A Qualitative Analysis of Common Practices in Annotations: A Taxonomy and Design Space**
SEMINAR TALK *Visualization Seminar, SCI Institute, University of Utah, USA*

2023 **Understanding the Design Space of Annotations in Visualizations**
INVITED TALK *Doctoral Colloquium, IEEE VIS, Melbourne, Australia*

2023 **How Do People Comprehend Annotations in Visualizations?**
CONFERENCE TALK *Vis X Vision Workshop, IEEE VIS, Melbourne, Australia*

2023 **Exploring Annotation Strategies in Professional Visualizations: Insights from Prominent US News Portals**
CONFERENCE TALK *VisComm Workshop, IEEE VIS, Melbourne, Australia*

2022 **A Qualitative Evaluation and Taxonomy of Student Annotations on Bar Charts**
CONFERENCE TALK *VisComm Workshop, IEEE VIS, Oklahoma City, USA*

Last updated October 2026 · The latest version is at dilshadur.com/cv