

Fayika Farhat Nova, PhD

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Address: Parkview Research Center, 10622 Parkview Plaza Dr, Fort Wayne, IN 46845

Research Interests	Health Informatics, Human-Computer Interaction, Artificial Intelligence, Digital Health, Social Computing, Social Network Analysis	
Professional Appointments	<i>Research Informatics Supervisor</i> Health Services and Informatics Research Parkview Research Center, Fort Wayne, IN, USA	Sep'24 - Current
	<i>Research Scientist</i> Health Services and Informatics Research Parkview Research Center, Fort Wayne, IN, USA	Dec'22 - Current
	<i>Coordinator</i> Marketing, Sale & Solution Department Huawei Technologies and Co., Dhaka, Bangladesh	Jan'17 - Jun'17
Affiliations	<i>Adjunct Clinical Assistant Professor</i> Biostatistics & Health Data Science Indiana University School of Medicine, Fort Wayne, IN, USA	Dec'23 - Current
Research Experiences	<i>Research Analyst</i> Health Services and Informatics Research Parkview Research Center, IN, USA	Jan'22 - Nov'22
	<i>Graduate Research Assistant</i> Department of Computer Science Marquette University, WI, USA	Jan'21 - Dec'21
	<i>HSIR Research Protocol Assistant</i> Health Services and Informatics Research Parkview Research Center, IN, USA	May'20 - Aug'20
	<i>Graduate Research Assistant</i> Department of Mathematics, Statistics and Computer Science Marquette University, WI, USA	Aug'17 - Jul'19
Education	<i>PhD in Computer Science</i> , Department of Computer Science Marquette University, USA	Aug'17 - Dec'22
	<i>M.Sc. in Computing</i> , Department of Computer Science Marquette University, USA	Aug'17 - May'21
	<i>B.Sc. in Computer Science</i> , Department of Computer Science Asian University for Women, Bangladesh	Sep'11 - May'16

Skills	<p>Programming Languages: C, Java, Python, R, MATLAB, SQL Tools/Software/Libraries: RStudio, SPSS, Jupyter, MATLAB, MySQL, Tableau, PowerBI, Eclipse, EPIC, Proto.io, NumPy, Pandas, PyTorch, SciPy, Matplotlib, Seaborn, ResearchPy, Scikit-learn, Psych, Ggplot2 Styling & Scripting Languages: CSS, HTML, PHP, JS Framework: Bootstrap Storage: MySQL, Apache IDE: Eclipse Operating Systems: MAC OS, Windows, Linux (Linux mint) Research Methods: Ethnography, User Interviews, Contextual inquiry, Surveys, Focus Groups, Web Scraping Analytical Skills: Statistical Analysis, Machine Learning Algorithms, Natural Language Processing, Predictive Modeling Languages: Bengali(native), English(proficient), Hindi(Basic)</p>
Honors & Awards	<p>Leadership Fort Wayne, 2025 NSF CRII HCC Award (2348691), 2024 Oracle for Research-Project Award, 2023 CRA-WP Career Mentoring Workshop Travel Award, 2023 Group Doctoral Consortium Workshop and Travel Award, 2023 Research Assistant Under NSF Grant (2026607), 2021 Parkview Research Center Summer Research Grant, 2020 Grace Hopper Student Scholar, 2019 CRA-W Grad Cohort for Women Workshop Fund, 2019 ICTDX Doctoral Consortium Workshop and Travel Award, 2019 SIGCHI Travel Grant, 2018 Wedu Leadership Rising Star Award, 2015 Chevron Scholarship, 2012</p>
Certification	<p>EPIC (Cogito, Ambulatory, IP Nurse), QPR, CITI- Social & Behavioral, Clinical Practice, Human Subject Research, Responsible Conduct of Research (RCR)</p>
Grants	<p>Advancing Trauma-Informed Care in AI-driven Mental Health Chatbots. <i>NSF CRII HCC</i>. 2024-2026 (\$175k). PI.</p> <p>Peer PLUS: A Client-Centered Digital Intervention for Addressing the Needs of Individuals with Substance Use Disorder. <i>AHRQ</i>. 2023-2028 (\$990k). Research Support.</p> <p>Certified Community Behavioral Health Clinic Improvement and Advancement. <i>SAMHSA</i>. 2023-2027 (\$1M). Project Evaluator.</p> <p>Investigating "#meanspo" in Pro-Eating Disorder Social Media Networks: Analyzing Risky Health Trends and Self-Harm. <i>Oracle</i>. 2023-2024 (\$50k). PI.</p>
Peer-Reviewed Conference Papers	<p>Fayika Farhat Nova, Aniruddha Shinde, Rachel Pfafman, Annalise Harrison, Caralyn Logan Delaney, and Jessica Pater. 2025. Sentiment Analysis of #Meanspo Tweets: Humans vs. Automatic Classifications. <i>Proc. ACM Hum.-Comput. Interact.</i> 9, GROUP, Article 28 (January 2025), 25 pages. https://doi.org/10.1145/3701207</p> <p>Fayika Farhat Nova, Rachel Pfafman, Caralyn Logan Delaney, and Jessica</p>

Pater. 2024. Unveiling the "Toxic" World of #Meanspo: Understanding Users' Emerging Online Eating Disorder Practices in X/Twitter. *Proc. ACM Hum.-Comput. Interact.* 8, **CSCW2, Article 522 (November 2024)**, 27 pages. <https://doi.org/10.1145/3687061>

Jessica Pater, Amanda Coupe, **Fayika Farhat Nova**, Rachel Pfafman, Jeanne Carroll, Abigail Brouwer, Camden Bohn, Jason Li, Noah Todd, Fen Lei Chang, MD, and Shion Guha. 2023. Social Media is not a Health Proxy: Differences Between Social Media and Electronic Health Record Reports of Post-COVID Symptoms. *Proceedings of the ACM on Human-Computer Interaction* 7, Article 148, 25 pages. **CSCW1, 2023**. ACM. <https://doi.org/10.1145/3579624>

Fayika Farhat Nova, Rachel Pfafman, Kelley Kardys, Connie Kerrigan, Shion Guha, and Jessica Pater. "Uncovering Adverse Childhood Experiences (ACEs) from Clinical Narratives within the Electronic Health Record". *Proceedings of the ACM on Human-Computer Interaction* 6, Article 547, 29 pages. **CSCW2, 2022**. ACM. <https://doi.org/10.1145/3555605>

Fayika Farhat Nova, Amanda Coupe, Elizabeth D. Mynatt, Shion Guha, and Jessica A. Pater. "Cultivating the community: inferring influence within eating disorder networks on twitter." *Proceedings of the ACM on Human-Computer Interaction* 6, Article 7, 33 pages. **GROUP, 2022**. ACM. <https://doi.org/10.1145/3492826>

Fayika Farhat Nova, Pratyasha Saha, and Shion Guha. "Understanding Online Harassment and Safety Concerns of Marginalized LGBTQ+ Populations on Social Media in Bangladesh". *Proceedings of the 2022 International Conference on Information and Communication Technologies and Development*. **ICTD, 2022**. ACM. <https://doi.org/10.1145/3572334.3572396>

Fayika Farhat Nova, Michael Ann DeVito, Pratyasha Saha, Kazi Shohanur Rashid, Shashwata Roy Turzo, Sadia Afrin, and Shion Guha. "Facebook Promotes More Harassment": Social Media Ecosystem, Skill and Marginalized Hijra Identity in Bangladesh." *Proceedings of the ACM on Human-Computer Interaction* 5, no. pp: 1-35. **CSCW1, 2021**. ACM . <https://doi.org/10.1145/3449231>

Jessica Pater, **Fayika Farhat Nova**, Amanda Coupe, Lauren E. Reining, Connie Kerrigan, Tammy Toscos, and Elizabeth D. Mynatt. "Charting the Unknown: Challenges in the Clinical Assessment of Patients' Technology Use Related to Eating Disorders." In *Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems*, pp. 1-14. **CHI, 2021**. ACM. <https://doi.org/10.1145/3411764.3445289>

Fayika Farhat Nova, Michael Ann DeVito, Pratyasha Saha, Kazi Shohanur Rashid, Shashwata Roy Turzo, Sadia Afrin, and Shion Guha. "Understanding How Marginalized Hijra in Bangladesh Navigate Complex Social Media Ecosystem." In *Conference Companion Publication of the 2020 on Computer Supported Cooperative Work and Social Computing*, pp. 353-358. **CSCW, 2020**. ACM. <https://doi.org/10.1145/3406865.3418317>

Fayika Farhat Nova, Pratyasha Saha, Md Shafiur Raihan Shafi, and Shion Guha. "Sharing Of Public Harassment Experiences on Social Media in Bangladesh." In *Conference Companion Publication of the 2019 on Computer Supported Cooperative Work and Social Computing*, pp. 324-329. **CSCW, 2019**. ACM.

<https://doi.org/10.1145/3311957.3359465>

Fayika Farhat Nova, MD Rashidujjaman Rifat, Pratyasha Saha, Syed Ish-tiaque Ahmed, and Shion Guha. "Online sexual harassment over anonymous social media in Bangladesh." In Proceedings of the Tenth International Conference on Information and Communication Technologies and Development, pp. 1-12. **ICTD, 2019**. ACM. <https://doi.org/10.1145/3287098.3287107>

Fayika Farhat Nova, Md Rashidujjaman Rifat, Pratyasha Saha, Syed Ishti-que Ahmed, and Shion Guha. "Silenced Voices: Understanding Sexual Harassment on Anonymous Social Media Among Bangladeshi People." In Companion of the 2018 ACM Conference on Computer Supported Cooperative Work and Social Computing, pp. 209-212. **CSCW, 2018**. ACM. <https://doi.org/10.1145/3272973.3274057>

Workshop Papers

Fayika Farhat Nova, and Jessica Pater. "How Trauma-Informed Mental Health Chatbots Are for Youths". Trauma Informed Design workshop. 2023 ACM Computer Supported Cooperative Work and Social Computer Conference. Minneapolis, MI.

Fayika Farhat Nova, Pratyasha Saha, and Shion Guha. "Marginalization in Non-Western Context and Challenges of Collecting Data". Qualitative Research Methods for CSCW: Challenges and Opportunities Workshop. 2019 ACM Computer Supported Cooperative Work and Social Computer Conference. Austin, TX.

Journal Articles

Chakabva, Munyaradzi Stanley, Sarah Polina, Mckenna Brauner, Meghan McGuire, Zachary Brown, Tabinda Akthar, Michael Todt, Aws Polina, and **Fayika Farhat Nova**. "Comparison of Standard Versus Intermediate Prophylaxis Dose for Venous Thromboembolism Prophylaxis in Patients Hospitalized With COVID-19 Infection." Hospital Pharmacy (2023): 00185787231194997.

Academic Projects

Recommendation Engine Design: Web-based Movie Recommendation Engine using R, MySQL, Facebook API, bootstrap, HTML, Java Script, and CSS

BI Dashboard Design: Interactive dashboard interface for Expedia to create "Targeted Marketing Strategy" decisions using Tableau, and R

Database Design: PHP-based web user interface for Bangladesh Birth Registration Bureau using MySQL, CSS, HTML, and PHP

Mobile Application Design: Java-based mobile user interface with GPS, password authentication, and message alert system using Eclipse, Android SDK, MySQL and Java

Teaching

Lab Instructor
Intro to Computer Science- Marquette University
-Spring 2020, 60 students
-Fall 2020, 52 students

Lab Instructor
Programming Language- Marquette University
-Fall 2019, 40 students

Faculty
CSE and EEE Department, Uttara University
-Fall 2016, 86 students
-Spring 2017, 120 students

Student Mentoring

Research Mentees

- Faye Kollig, University of Colorado Boulder, PhD Information Sciences (2024-current)
- Kira Voelker, Purdue University, BS Psychology (2024-current)
- Emily Ryan, Indiana University, BS Business Management (2024-current)

Professional Service

Professional Societies

- ACM
- AMIA

Organizing Committee

- ACM CSCW 2024- Demo Chair
- CRA-I- Sharing Healthcare Data 2024

Program Committee

- ACM CHI 2024

Editorial Board

- Family Relations, Artificial Intelligence in Everyday Family Life, 2023-2024

Conference Reviewing

- ACM CHI, 2019, 2022, 2023, 2024, 2025
- ACM GROUP, 2022, 2023, 2025
- ACM CSCW, 2018-2023

Journal Reviewing

- Journal of Human Behavior and Emerging Technologies

Invited Talks

Beyond Interface: Understanding Your User for Meaningful Solutions. *Invited Guest Lecture*. (2024, December). Purdue Fort Wayne.

What is Artificial Intelligence (AI)?. *Hot Topics in Tech and Innovation and the Intersection of Life and Health*. (2023, June). Parkview Health.

Developing Cybersafe Homes. *Plymouth Educational Program*. (2023, March). Plymouth Congregational Church.

Organizing & Leadership Activities

Community Action Project, 2025, Amani Family Service, IN, USA
Graduate Consultant, 2021-2022, ACM-W Marquette Chapter, USA
Student Volunteer, CHI 2021, Virtual (originally Yokohama, Japan)
Co-General Secretary, 2020-2021, Bangladesh Student Association-Marquette University, USA
Student Volunteer, CSCW 2020, Virtual (originally Minneapolis, USA)
Student Volunteer, CSCW 2019, Texas, USA
Student Volunteer, ICTD 2019, Ahmadabad, India
Vice President, 2015-2016, AUW Photography Club, Bangladesh
Communication and Co-operation Officer, 2014-2016, AUW IT Club, Bangladesh