

## Fayika Farhat Nova, PhD

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

<b>Research Interests</b>	Health Informatics, Human-Computer Interaction, Artificial Intelligence, Digital Health, Social Computing, Social Network Analysis	
<b>Professional Appointments</b>	<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
<b>Affiliations</b>	<i>Adjunct Clinical Assistant Professor</i> Biostatistics & Health Data Science Indiana University School of Medicine, Fort Wayne, IN, USA	Dec'23 - Current
<b>Research Experiences</b>	<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
<b>Education</b>	<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

<b>Skills</b>	<p>Programming Languages: C, Java, Python, R, MATLAB, SQL</p> <p>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</p> <p>Styling &amp; Scripting Languages: CSS, HTML, PHP, JS</p> <p>Framework: Bootstrap</p> <p>Storage: MySQL, Apache</p> <p>IDE: Eclipse</p> <p>Operating Systems: MAC OS, Windows, Linux (Linux mint)</p> <p>Research Methods: Ethnography, User Interviews, Contextual inquiry, Surveys, Focus Groups, Web Scraping</p> <p>Analytical Skills: Statistical Analysis, Machine Learning Algorithms, Natural Language Processing, Predictive Modeling</p> <p>Languages: Bengali(native), English(proficient), Hindi(Basic)</p>
<b>Honors &amp; Awards</b>	<p>Leadership Fort Wayne, 2025</p> <p>NSF CRII HCC Award (2348691), 2024</p> <p>Oracle for Research-Project Award, 2023</p> <p>CRA-WP Career Mentoring Workshop Travel Award, 2023</p> <p>Group Doctoral Consortium Workshop and Travel Award, 2023</p> <p>Research Assistant Under NSF Grant (2026607), 2021</p> <p>Parkview Research Center Summer Research Grant, 2020</p> <p>Grace Hopper Student Scholar, 2019</p> <p>CRA-W Grad Cohort for Women Workshop Fund, 2019</p> <p>ICTDX Doctoral Consortium Workshop and Travel Award, 2019</p> <p>SIGCHI Travel Grant, 2018</p> <p>Wedu Leadership Rising Star Award, 2015</p> <p>Chevron Scholarship, 2012</p>
<b>Certification</b>	<p>EPIC (Cogito, Ambulatory, IP Nurse), QPR, CITI- Social &amp; Behavioral, Clinical Practice, Human Subject Research, Responsible Conduct of Research (RCR)</p>
<b>Grants</b>	<p><b>Advancing Trauma-Informed Care in AI-driven Mental Health Chatbots.</b> <i>NSF CRII HCC</i>. 2024-2026 (\$175k). PI.</p> <p><b>Peer PLUS: A Client-Centered Digital Intervention for Addressing the Needs of Individuals with Substance Use Disorder.</b> <i>AHRQ</i>. 2023-2028 (\$990k). Research Support.</p> <p><b>Certified Community Behavioral Health Clinic Improvement and Advancement.</b> <i>SAMHSA</i>. 2023-2027 (\$1M). Project Evaluator.</p> <p><b>Investigating ”#meanspo” in Pro-Eating Disorder Social Media Networks: Analyzing Risky Health Trends and Self-Harm.</b> <i>Oracle</i>. 2023-2024 (\$50k). PI.</p>
<b>Peer-Reviewed Conference Papers</b>	<p><b>Fayika Farhat Nova</b>, 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, <b>GROUP, Article 28 (January 2025)</b>, 25 pages. <a href="https://doi.org/10.1145/3701207">https://doi.org/10.1145/3701207</a></p> <p><b>Fayika Farhat Nova</b>, 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-  
aque Ahmed, and Shion Guha. "Silenced Voices: Understanding Sexual Harass-  
ment 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 Com-  
puter Supported Cooperative Work and Social Computer Conference. Minneapo-  
lis, 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 Com-  
puter 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 Todd, Aws Polina, and **Fayika Farhat  
Nova**. "Comparison of Standard Versus Intermediate Prophylaxis Dose for Ve-  
nous Thromboembolism Prophylaxis in Patients Hospitalized With COVID-19  
Infection." Hospital Pharmacy (2023): 00185787231194997.

### **Academic Projects**

Recommendation Engine Design: Web-based Movie Recommendation Engine us-  
ing 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 Registra-  
tion Bureau using MySQL, CSS, HTML, and PHP

Mobile Application Design: Java-based mobile user interface with GPS, pass-  
word 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
<b>Student Mentoring</b>	Research Mentees <ul style="list-style-type: none"> <li>• Faye Kollig, University of Colorado Boulder, PhD Information Sciences (2024-current)</li> <li>• Kira Voelker, Purdue University, BS Psychology (2024-current)</li> <li>• Emily Ryan, Indiana University, BS Business Management (2024-current)</li> </ul>
<b>Professional Service</b>	<b>Professional Societies</b> <ul style="list-style-type: none"> <li>• ACM</li> <li>• AMIA</li> </ul> <b>Organizing Committee</b> <ul style="list-style-type: none"> <li>• ACM CSCW 2024- Demo Chair</li> <li>• CRA-I- Sharing Healthcare Data 2024</li> </ul> <b>Program Committee</b> <ul style="list-style-type: none"> <li>• ACM CHI 2024</li> </ul> <b>Editorial Board</b> <ul style="list-style-type: none"> <li>• Family Relations, Artificial Intelligence in Everyday Family Life, 2023-2024</li> </ul> <b>Conference Reviewing</b> <ul style="list-style-type: none"> <li>• ACM CHI, 2019, 2022, 2023, 2024, 2025</li> <li>• ACM GROUP, 2022, 2023, 2025</li> <li>• ACM CSCW, 2018-2023</li> </ul> <b>Journal Reviewing</b> <ul style="list-style-type: none"> <li>• Journal of Human Behavior and Emerging Technologies</li> </ul>
<b>Invited Talks</b>	Beyond Interface: Understanding Your User for Meaningful Solutions. <i>Invited Guest Lecture.</i> (2024, December). Purdue Fort Wayne.  What is Artificial Intelligence (AI)?. <i>Hot Topics in Tech and Innovation and the Intersection of Life and Health.</i> (2023, June). Parkview Health.  Developing Cybersafe Homes. <i>Plymouth Educational Program.</i> (2023, March). Plymouth Congregational Church.
<b>Organizing &amp; Leadership Activities</b>	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