

Shiza Ali

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EDUCATION

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| Boston University <i>PhD in Computer Engineering</i> <ul style="list-style-type: none">• Advisor: Dr. Gianluca Stringhini• Thesis: <i>Tackling Toxicity Online: Developing Comprehensive Approaches for Online Risk Detection</i> | Sep. 2019 – Present <i>Boston, MA</i> |
| National University of Computer and Emerging Sciences (NUCES) <i>B.S. in Computer Science</i> <ul style="list-style-type: none">• Magna Cum Laude — Dean's List 2014-18 | Sep. 2014 – May 2018 <i>Lahore, PK</i> |

EXPERIENCE

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| Doctoral Research Fellow <i>Security Lab (SeclaBU)</i> <ul style="list-style-type: none">• Develop methodologies to detect risks and abusive behavior online.• Published research related to online privacy and security in various conferences such as IEEE(S&P), WebSci, etc. | Aug. 2019 - Present <i>Boston, MA</i> |
| Research Assistant <i>Socio-Technical Interaction Research Lab (STIR Lab)</i> <ul style="list-style-type: none">• Performed qualitative, and quantitative analysis (mixed-method) to gain human-centered insights into risky interactions experienced by youth online.• Published research related to online safety in various conferences such as CHI, CSCW, etc. | Aug. 2021 - Aug. 2022 <i>Orlando, FL</i> |
| Developer Advocate <i>Educative.io</i> <ul style="list-style-type: none">• Authored interactive courses in Machine Learning and Data Science.• Collaborated with the development team to design features for the company website. | Feb. 2019 - Aug. 2019 <i>Lahore, PK</i> |
| Research Associate <i>Technology for People Initiative Lab, LUMS</i> <ul style="list-style-type: none">• Designed and developed an AI model to detect inappropriate content on video streaming platforms such as YouTube to detect and block child-inappropriate content. | Feb. 2018 - Feb. 2019 <i>Lahore, PK</i> |
| Software Engineer Intern <i>Mindstorm Studios</i> <ul style="list-style-type: none">• Served as a full-stack developer and deployed HTML5 game on Facebook.• Collaborated with design teams and Senior Software Engineers to build customized software products. | Jun. 2017 - Aug. 2017 <i>Lahore, PK</i> |

PROJECTS

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| Understanding Moderation on TikTok <ul style="list-style-type: none">• Conducted an in-depth analysis of TikTok's content moderation practices.• Built a machine-learning tool to detect hazardous drug-related hashtags using feature engineering. | July 2023 – Present |
| Proactive Approach to Detecting Evolving Hate Speech Online <ul style="list-style-type: none">• Developed and designed a hybrid model that adapts to emerging slurs and new linguistic patterns using word embeddings to detect toxic content online. | July 2022 – July 2023 |
| Multi-modal Risk Detection Pipeline for Instagram Conversations <ul style="list-style-type: none">• Implemented a multi-modal ensemble classifier that detects risky private conversations for youth on Instagram. | August 2021 – July 2022 |
| Troll Magnifier <ul style="list-style-type: none">• Developed a machine-learning pipeline to detect State-Sponsored Troll Accounts on Reddit to get insights on how troll accounts operate on Reddit. | Sep 2019 – Aug 2021 |
| Understanding the Effects of Deplatforming on Twitter <ul style="list-style-type: none">• Analyzed the effect of de-platforming users on social networking sites and explored where users migrate to and whether they become more hateful after being banned. | Sep 2019 – Aug 2021 |

PUBLICATIONS

Conference

- **Shiza Ali**, Afsaneh Razi, Seunghyun Kim, Ashwaq Alsoubai, Joshua Gracie, Munmun De Choudhury, Pamela J. Wisniewski, and Gianluca Stringhini. "Understanding the digital lives of youth: Analyzing media shared within safe versus unsafe private conversations on Instagram." **Best Paper: Honorable Mention Award** (ACM CHI'22).
- Mohammad Hammas Saeed, **Shiza Ali**, Jeremy Blackburn, Emiliano De Cristofaro, Savvas Zannettou, and Gianluca Stringhini. "Trollmagnifier: Detecting state-sponsored troll accounts on Reddit." (IEEE S&P'22).
- **Shiza Ali**, Mohammad Hammas Saeed, Esraa Aldreabi, Jeremy Blackburn, Emiliano De Cristofaro, Savvas Zannettou, and Gianluca Stringhini. "Understanding the effect of deplatforming on social networks." (ACM WebSci'21).
- Rashid Tahir, Faizan Ahmed, Hammas Saeed, **Shiza Ali**, Fareed Zaffar, and Christo Wilson. "Bringing the kid back into YouTube kids: Detecting inappropriate content on video streaming platforms." (IEEE/ACM ASONAM'19).

Journal

- **Shiza Ali**, Afsaneh Razi, Seunghyun Kim, Ashwaq Alsoubai, Chen Ling, Munmun De Choudhury, Pamela J. Wisniewski, and Gianluca Stringhini. "Getting Meta: A Multimodal Approach for Detecting Unsafe Conversations within Instagram Direct Messages of Youth." (ACM CSCW'23).
- Afsaneh Razi, Ashwaq Alsoubai, Seunghyun Kim, **Shiza Ali**, Gianluca Stringhini, Munmun De Choudhury, and Pamela J. Wisniewski. "Sliding into My DMs: Detecting Uncomfortable or Unsafe Sexual Risk Experiences within Instagram Direct Messages Grounded in the Perspective of Youth." (ACM CSCW'23).

Workshops

- Afsaneh Razi, Ashwaq Alsoubai, Seunghyun Kim, Nurun Naher, **Shiza Ali**, Gianluca Stringhini, Munmun De Choudhury, and Pamela J. Wisniewski. "Instagram Data Donation: A Case Study on Collecting Ecologically Valid Social Media Data for the Purpose of Adolescent Online Risk Detection." (ACM CHI'22 - Extended Abstracts).
- Xavier Caddle, Ashwaq Alsoubai, Afsaneh Razi, Seunghyun Kim, **Shiza Ali**, Gianluca Stringhini, Munmun De Choudhury, and Pamela Wisniewski. "Instagram data donation: A case for partnering with social media platforms to protect adolescents online." (ACM CHI'21 - Workshop).
- Xavier Caddle, Afsaneh Razi, Seunghyun Kim, **Shiza Ali**, Temi Popo, Gianluca Stringhini, Munmun De Choudhury, and Pamela J. Wisniewski. "MOSafely: Building an Open-Source HCAI Community to Make the Internet a Safer Place for Youth." (ACM CSCW'21 - Companion Publication).
- Afsaneh Razi, Seunghyun Kim, Ashwaq Alsoubai, Xavier Caddle, **Shiza Ali**, Gianluca Stringhini, Munmun De Choudhury, and Pamela Wisniewski. "Teens at the Margin: Artificially Intelligent Technology for Promoting Adolescent Online Safety." (ACM CHI'21 - Workshop).

HONORS AND AWARDS

- SIGCHI Gary Marsden Travel Award, 2023
- Meta Research PhD. Fellowship Finalist, 2023
- IEEE S&P Student Grant, 2022 (\$1500)

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, HTML/CSS, R

Libraries: pandas, NumPy, Matplotlib, PyTorch, SciPy, BeautifulSoup, Scikit learn, Plotly