Yasmine Belghith

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EDUCATION

2021 – Present **Ph.D. Human-Centered Computing,** Georgia Institute of Technology, Atlanta, GA
Advisor: Dr. Jessica Roberts
Focus: Learning Sciences and Technology

May 2021 **M.S. Computer Science**, Virginia Tech, Blacksburg, VA
Focus*:* Human-Computer Interaction
Thesis: The Social Structures of OSINT: Examining Collaboration and Competition in Open Source Intelligence Investigations
Committee*:* Dr. Kurt Luther (Advisor/Chair), Dr. Andrea Kavanaugh, Dr. Chris North

May 2019 **B.S. Computer Science**, Virginia Tech, Blacksburg, VA
Minors in Industrial Design and French
Magna Cum Laude Honors Graduate

RESEARCH AND WORK EXPERIENCE

2021 – Present **TILES Lab at Georgia Institute of Technology**
Graduate Research Assistant
Advisor: Dr. Jessica Roberts
Projects**:** Mapping Inequality, AI EDPL, AI Literacy

2019 – 2021 **Crowd Intelligence Lab at Virginia Tech**
Graduate Research Assistant – Social OSINT Project [C·2]
Advisor: Dr. Kurt Luther

Graduate Research Assistant – CrowdTrace Project [C·1]
Advisors: Dr. Tianyi Li, Dr. Kurt Luther, Dr. Chris North

- Assist in design, implementation, and evaluation of *CrowdTrace* system for visualization of provenance in distributed sensemaking.
- Assist in data analysis and synthesis of quantitative and qualitative data from evaluative usability studies and surveys.

Summer 2019 **SAP Concur**
Full-Stack Software Design Engineering Intern

- Design a micro-service to fulfill the GSA City Pair Program's testing requirement as part of the Govt. R&D team. The design incorporated AWS RDS' MySQL service using Golang and proved as a more resilient and flexible system design

for data storage and data generation, as well as more user friendly for testing, data visualization and result reporting.

- Implement the micro-service which improved testing performance (from 100 tests/week to 50 tests/*hour*). The micro-service portability permits for its migration to commercial team projects as well.

Spring 2019 **Materials and Design Lab (MaD Lab) at Virginia Tech**
Undergraduate Research Assistant – Tooling Bamboo Growth Project
Advisor: Prof. Jonas Hauptman (College of Architecture and Urban Studies)

- Design system wireframes for CNC machine tailored to Bamboo. Schematics include 4-axes, in addition to a mirrored y-axis, Bamboo CNC machine supported by LinuxCNC (MachineKit) and BeagleBone boards.
- Research user interface alternatives for MachineKit to enable customization of controls for the Bamboo CNC machine.

2017 – 2018 **syNeRGy Lab at Virginia Tech**
Undergraduate Researcher – Parallel Programming with Pictures Project
Advisor: Dr. Wu Feng

- Assemble generalized modules to teach "parallel programming with pictures" for relevant pedagogical venues, e.g., CS 2104, Let's Code Blacksburg. Modules engage students to work with serial and parallel computing concepts and to interact with the block-based language "Snap!"
- Participate in Women in Computing Day by assisting, tutoring, and walking through the "parallel programming with pictures" modules with the attendees.

PUBLICATIONS

Peer-Reviewed Conference and Journal Papers

[J·1] **Yasmine Belghith**, Mark Riedl, Roxanne Moore, Meltem Alemdar, Jessica Roberts, 2025. "Exploring AI intervention points in high-school engineering education: a research through co-design approach." *Information and Learning Sciences (2025)*.

[C·5] **Yasmine Belghith***, Atefeh Mahdavi Goloujeh*, Brian Magerko, Duri Long, Tom McKlin, Jessica Roberts, 2024. Testing, Socializing, Exploring: Characterizing Middle Schoolers' Approach to and Conceptions of ChatGPT. In *Proceedings of the 2024 ACM Conference on Human Factors in Computing Systems (CHI '24). (26.4% acceptance rate)* *authors contributed equally.

[C·4] **Yasmine Belghith**, Julia Kim, Meltem Alemdar, Roxanne Moore, Jeffrey Rosen, Mark Riedl, Jessica Roberts, 2023. Problem-solving or Solved Problems: Constricting design challenges in high-school engineering education to avoid (disruptive) failures. In *Proceedings of the 2023 International Conference of the Learning Science (ICLS '23).*

[C·3] **Yasmine Belghith**, Roxanne Moore, Meltem Alemdar, Jeffrey Rosen, Mark Riedl, Jessica Roberts, 2023. Examining Hard and Soft Skill Prioritization in High-School Engineering Education. Annual meeting of the American Educational Researchers Association. Chicago, Illinois, USA.

[C·2] **Yasmine Belghith**, Sukrit Venkatagiri, Kurt Luther, 2022. Compete, Collaborate, Investigate: Exploring the Social Structures of Open Source Intelligence Investigations. In *Proceedings of the 2022 ACM Conference on Human Factors in Computing Systems (CHI '22). (Top 24.7% of 2,579 submissions)*

[C·1] Tianyi Li, **Yasmine Belghith**, Chris North, Kurt Luther, 2020**.** CrowdTrace: Visualizing provenance in distributed sensemaking**,** In *2020 IEEE Visualization Conference (VIS). IEEE, 2020. (36% acceptance rate)*

Posters and Demos

2019 ⏳ **Yasmine Belghith**, Mahira Sheikh, Jack Danisewicz, Josh Wenger, Hani Awni, Scott McCrickard. **Accessibility Map @ VT**, *VTURCS Spring Research Symposium, Virginia Tech.* Blacksburg, VA, USA. 2019. (Poster) **(Capstone Award 2nd Place)**

2019 **Yasmine Belghith**, Jooyoung Whang, Carlisle Hughes, Steve Harrison. **Street Art: an immersive VR experience**, *VTURCS Spring Research Symposium, Virginia Tech.* Blacksburg, VA, USA. 2019. (Poster, Demo)

2019 **Yasmine Belghith**, Jooyoung Whang, Carlisle Hughes, Steve Harrison. **Street Art: an immersive VR experience**, *ICAT Creativity + Innovation Day, Virginia Tech*. Blacksburg, VA, USA, 2019. (Poster, Demo)

Other Work

2021 **Belghith, Yasmine**. The Social Structures of OSINT: Examining Collaboration and Competition in Open Source Intelligence Investigations. *Diss. Virginia Tech, 2021*.

TEACHING EXPERIENCE

Georgia Institute of Technology

Spring 2025 ***Graduate Teaching Assistant***
Learning Research Design (CS 8803)
- With Dr. Jessica Roberts

Fall 2023 ***Graduate Student Instructor***
Introduction to Human-Centered Computing (CS 8001)

Graduate Teaching Assistant
Foundation of Educational Technology (CS 4660/6460)

Summer 2025
- With Dr. Jessica Roberts

Fall 2022
- With Dr. Jessica Roberts

Virginia Polytechnic Institute and State University (Virginia Tech)
Graduate Teaching Assistant
Introduction to Graphical User Interfaces and Graphics (CS 3744)

Fall 2019
- With Dr. Kurt Luther

Spring 2020
- With Dr. Sang Won Lee

INVITED TALKS

Qualitative Data Analysis in Facebook Disputes Project,

1. Spring 2022 Online Communities (CS 6470) Georgia Tech
2. Fall 2022 Online Communities (CS 6470) Georgia Tech

Qualitative Data Analysis for Characterizing Middle School-Aged Children's Interactions with ChatGPT,

1. Spring 2025 Learning Research Design (CS 8803) Georgia Tech
2. Fall 2023 Learning Research Design (CS 8803) Georgia Tech

Testing, Socializing, Exploring: Characterizing middle school-aged children's conceptions of and approaches to ChatGPT

1. Fall 2024 Large Language Model Seminar (CS 8001) Georgia Tech

STUDENT MENTORING

Spring 2025 Yiling Bai, M.S. in Digital Media, Georgia Institute of Technology

Fall 2024 Xueru Yu, Ph.D. in Human-Centered Computing, Georgia Institute of Technology

Fall 2022	Disha Aravind, M.S. in Computer Science, Georgia Institute of Technology
Fall 2022	Anthony Teachey, M.S. in Computer Science, Georgia Institute of Technology
2021-2022	Lily Bernstein, B.S. in Computer Science, Georgia Institute of Technology

ACTIVITIES & AFFILIATIONS

Fall 2020	Center for Human-Computer Interaction at Virginia Tech
Summer 2017	Volunteer French teacher at Trinity PDO
2016 – 2018	Vice President of SalsaTech at Virginia Tech
2015 – 2018	Mentor in the CS Mentor-Mentee Club at Virginia Tech
2015 - 2017	Peer Leader in the Residential Leadership Community at Virginia Tech

SERVICE

Reviewer: CSCW 2021, CHI 2022, CHI 2024, IDC 2024, CSCW 2025, CHI 2025

SKILLS

- **Research Methods:** interviews, participatory design, co-design, focus groups, surveys, contextual inquiry, think aloud protocols
- **Programming languages:** Java, C, HTML, CSS, JavaScript, PHP, MySQL, Go lang, Python
- **Software:** MaxQDA, Dedoose, Balsamiq

LANGUAGES

- French (Native)
- Arabic (Native)
- English (Fluent)
- Spanish (Conversational)

RELEVANT COURSEWORK

- *Human-Computer Interaction*: Models & Theories of HCI (Prof. Harrison), User Interface Software (Dr. Luther), Adv. Topics in HCI: Participatory Wellbeing of Underserved Communities (Dr. Kelliher), Social Computing and Computer Supported Cooperative Work (Dr. Tatar), Foundations of Educational Technologies (Dr. DiSalvo), Educational Game Design (Dr. DiSalvo)
- *Computer Science*: Software Engineering (Dr. Servant), Advanced Machine Learning (Dr. Huang), Research Methods in CS (Dr. Tilevich)