EVELYN S. GOROZA

Curriculum Vitae

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EDUCATION

Master of Science in Human Factors Engineering September 2023 – August 2025
Tufts University, School of Engineering, Department of Mechanical Engineering *Medford, MA*

GPA: 3.97/4.0

Thesis: "Quantifying Calibration: Bridging Trust and Reliance in Automation Across Cultural Values and Dispositional Factors"

Advisor: Dave B. Miller, Ph.D.

Committee: Daniel J. Hannon, Ph.D.; Holly Taylor, Ph.D.

Bachelor of Science in Biology May 2021
Northeastern University *Boston, MA*

GPA: 3.8/4.0

EMT / BLS Certification (2019)

RESEARCH EXPERIENCE

Graduate Researcher — Master's Thesis February 2024 – August 2025
Human Factors Engineering Lab, Tufts University *Medford, MA*

Advisor: Dave B. Miller, Ph.D.

Committee: Daniel J. Hannon, Ph.D.; Holly Taylor, Ph.D.

- Designed and developed Calibratio, a Unity-based behavioral simulation with a delegation interface to measure real-time trust-reliance calibration in human-automation interaction
- Conducted behavioral study with N = 189 participants (567 observations) recruited via Prolific using stratified sampling by ethnicity
- Developed novel 'Use-in-Range' metric adapted from continuous glucose monitoring technology to quantify calibrated use, misuse, and disuse of automation systems
- Constructed and validated three-layer structural equation model (SEM) in R linking Hofstede's cultural values (CVScale) and dispositional trust traits to baseline trust, in-task trust, and behavioral reliance
- Led cross-functional team including Unity developers, statisticians, and usability testers from concept through publication
- Managed IRB protocol, counterbalanced experimental design, and end-to-end data collection pipeline

UX Researcher & Designer — ORBIT Project May 2024 – April 2025
Center for Engineering Education & Outreach (CEEO), Tufts University *Medford, MA*

PI: Jennifer Cross, Ph.D.; Co-PI: Elissa Milto, M.Ed.; Postdoc: Robert Hayes, Ph.D.

- Served as design lead for ORBIT (Opportunities for Robotics, Building, and Inclusive Technology), a two-year NSF-funded research project (Award #2318191) developing visual robot-programming tools for autistic middle school students
- Co-designed with Somerville Public Schools special education teachers at Winter Hill Community Innovation School to integrate computational thinking (CT) practices with executive functioning (EF) skill development using LEGO SPIKE Prime robotics
- Developed student-facing scaffolds including planning boards to support sequencing and task decomposition; iterated on materials based on educator feedback and pilot testing
- Led summer classroom pilot with CEEO Community Outreach Fellows; co-authored publication for IEEE FIE 2025

Clinical Research Coordinator May 2021 – February 2023
Laffel Lab, Joslin Diabetes Center / Harvard Medical School *Boston, MA*

Joslin Investigators: Sanjeev N. Mehta, M.D., M.P.H. (PI); Lori M. Laffel, M.D., M.P.H. (Co-PI)

CCRP: Lisa Volkening

NPs: Louise Ambler-Osborn; Christine Turcotte; Emily Freiner

- Dexcom G7 Pregnancy Study (NCT04905628): Coordinated pivotal trial evaluating CGM accuracy in 105 pregnant women with T1D, T2D, and GDM; contributed to FDA 510(k) clearance (Dec 2022); acknowledged on Polsky et al. (2024)
- Omnipod 5 Pivotal Trial (NCT04196140): Supported multi-center pivotal trial (N=240, ages 6–70) of tubeless AID system; contributed to FDA clearance (Jan 2022); Brown et al. (2021)
- Omnipod 5 Preschoolers Study (NCT04476472): Coordinated trial evaluating AID system safety in young children ages 2–5.9 with T1D; Sherr et al. (2022)
- HAPPY-T1D (NCT05413239): Supported NIH/NIDDK-funded RCT evaluating coaching intervention to improve glycemic control and reduce diabetes distress in adolescents/young adults ages 14–25

PUBLICATIONS

Thesis

Goroza, E. (2025). Quantifying calibration: Bridging trust and reliance in automation across cultural values and dispositional factors. *Master's thesis, Tufts University*. ProQuest (Order No. 32238898)

Workshop Papers

Goroza, E., McCarthy-Bui, G., Zhao, A., Ostenson, E. R., & Miller, D. B. (2025). Quantifying calibration: Bridging trust and reliance in automation across dispositional factors. *CHI '25 Workshop on Hybrid Automation Experiences (AutomationXP25), Yokohama, Japan*. CEUR Workshop Proceedings

Works in Progress

Hayes, R., Milto, E., **Goroza, E.**, & Cross, J. L. (2025). WIP: Pilot results of ORBIT: A visual robot-programming tool supporting computational thinking in special education. *IEEE Frontiers in Education Conference (FIE 2025), Nashville, TN*.

Acknowledged Contributions

Polsky, S., Valent, A. M., Isganaitis, E., Castorino, K., O'Malley, G., Beck, S. E., Gao, P., Laffel, L. M., Brown, F. M., & Levy, C. J. (2024). Performance of the Dexcom G7 continuous glucose monitoring system in pregnant women with diabetes. *Diabetes Technology & Therapeutics, 26*(5), 307–312. DOI: 10.1089/dia.2023.0516 [**Goroza, E.** acknowledged for contributions to Joslin Clinical Research Center study team]

PRESENTATIONS

Conference Presentations

Goroza, E., McCarthy-Bui, G., Zhao, A., Ostenson, E. R., & Miller, D. B. (2025, April). *Quantifying calibration: Bridging trust and reliance in automation across dispositional factors.* Workshop presentation at ACM CHI 2025 AutomationXP Workshop, Yokohama, Japan. (Presented by D. B. Miller)

HONORS & AWARDS

Trefethen Fellowship Summer 2025
Tufts University School of Engineering

Named fellowship honoring Lloyd Macgregor Trefethen (1919-2001), former ME Department Chairman; supports summer research bridging undergraduate to graduate studies

Wittich Grant Summer 2024
Tufts University School of Engineering

Research grant from Peter L. Wittich (E'83) supporting student researchers in Human Factors Engineering

PROFESSIONAL EXPERIENCE

Social Media Manager April 2023 – August 2023
post.script *San Francisco, CA*

- Managed social media strategy for AAPI-woman-owned boutique in Lower Pacific Heights, analyzing engagement metrics to grow online community across Instagram (8K+ followers) and TikTok

Freelance Analog Photographer January 2022 – August 2023
Independent Practice *Boston, MA & San Francisco, CA*

- Produced editorial 35mm portraiture for gallery exhibitions, nonprofit fundraisers, and independent clients
- Featured in LensCulture and Pamplemousse Magazine (San Francisco, CA); exhibited at Aeronaut Brewing Company (Somerville, MA)
- Created exclusive product line for post.script.; provided consulting for film lab

Founder & Editor-in-Chief, *Salome Magazine* May 2023 – August 2023
Independent Publication *Boston, MA & San Francisco, CA*

- Founded and published print magazine exploring analog photography and technology (ISBN: 9798210709875)
- Curated and edited contributions from 40+ international photographers, writers, and artists across 100+ pages
- Managed end-to-end production including contributor outreach, editorial direction, and print coordination

Patient Care Technician January 2020 – January 2021
Beth Israel Deaconess Medical Center *Boston, MA*

- Delivered BLS-certified critical care support in 15-bed CVICU and cardiac surgical units during COVID-19 surge, when hospital expanded ICU capacity by 93%
- Coordinated patient monitoring, vital signs, and interdisciplinary handoffs as part of multidisciplinary care team
- Featured in News@Northeastern for frontline pandemic work (April 2020)

Market Research Co-op, Global Oncology January 2019 – August 2019
Sanofi *Cambridge, MA*
Supervisor: Jack Tsai, MD, MBA

- Conducted competitive landscape analysis for Zaltrap (ziv-aflibercept) in metastatic colorectal cancer, benchmarking against competitor therapies including Avastin (bevacizumab)
- Analyzed physician prescribing patterns, treatment guidelines, and market trends; synthesized findings into reports and presentations for Global Oncology Marketing leadership

TECHNICAL SKILLS

Research Methods Behavioral study design, Usability testing (formative/summative), Mixed-methods research, Structural equation modeling (SEM), Survey design and validation, Task analysis, Heuristic evaluation

Statistical Software & Programming R (lavaan, tidyverse, ggplot2), Python, SPSS, Qualtrics

Design & Prototyping Unity (C#), Figma, Adobe Creative Suite (Photoshop, Illustrator, InDesign), Blender, Physical prototyping

Clinical Research REDCap, IRB protocol management, FDA 21 CFR Part 11 compliance, GCP, Prolific (participant recruitment)

CERTIFICATIONS & TRAINING

CITI Human Subjects Research Certification — IRB-approved for behavioral research with human participants

Emergency Medical Technician (EMT) — Northeastern University, 2019

Basic Life Support (BLS) — American Heart Association

PROFESSIONAL AFFILIATIONS

Human Factors and Ergonomics Society (HFES)

US Chess Federation (USCF)

REFERENCES

Available upon request

Last updated: December 2025