# Nathalia Gomez

PhD CANDIDATE · COMPUTER SCIENCE (HCI)

*Drexel University, Philadelphia, PA, USA*

nmg88@drexel.edu | Google Scholar

## Education

**Drexel University** *Philadelphia, PA*

PH.D. COMPUTER SCIENCE *2025 - 2030*

- Advisor: Dr. Tiffany D. Do

**Drexel University** *Philadelphia, PA*

B.S. Digital Media and Virtual Production *2020 - 2025*

- Minor in Computer Science, Minor in Virtual Reality and Immersive Media

## Research Appointments

2025 - **Graduate Research Assistant**, Drexel University

2024-2025 **Undergraduate Research Intern**, Drexel University

## Publications

- Google Scholar Profile: https://scholar.google.com/citations?user=9CjRAX8AAAAJ&hl

### CONFERENCE PROCEEDINGS

1. **Nathalia Gomez**, S. Sue Batham, Matias Volonte, and Tiffany D. Do (2025). "Virtual Interviewers, Real Results: Exploring AI-Driven Mock Technical Interviews on Student Readiness and Confidence." In Companion Publication of the 2025 Conference on Computer-Supported Cooperative Work and Social Computing (CSCW Companion '25), pp. 1-5. https://doi.org/10.1145/3715070.3749227
   Acceptance Rate: 28%

2. Daniel Schwartz, Lev A Saunders, **Nathalia Gomez**, Yusuf Osmanlioglu, Richard Vallett, Genevieve Dion, Ali Shokoufandeh (2025). "Minimalist Neural Networks for Gesture Recognition on Wearable Capacitive Touch Textiles With Comparative User Study." In Proceedings of the 2025 ACM Symposium on Spatial User Interaction (pp. 1–11). ACM. https://doi.org/10.1145/3694907.3765936
   Acceptance Rate: 31%

## Professional Experience

**Drexel University's College of Computing and Informatics** *Philadelphia, PA*

RESEARCH ASSISTANT *Oct 2024 - Sep 2025*

- Developed interactive simulations and games in Unity optimized for wearable textile touch sensors to showcase sensor efficiency and versatility compared to traditional controllers.
- Established methodologies for data collection and analysis to evaluate user learning curves and efficiency metrics, tailoring insights to improve device usability.
- Collected extensive sensor data to train deep-learning models for achieving optimal sensitivity and accuracy, ensuring precise player control and a seamless user experience.

**Xtatic Thought** *Philadelphia, PA*

VIRTUAL REALITY DEVELOPER *Dec 2022 - Mar 2023*

- Engineered a high-immersion VR tool using Unity and Oculus Integration Pack, integrating advanced hand-tracking, audio recording, virtual keyboard, and virtual drawing pad features.
- Ensured rapid project progression by establishing measurable goals, optimizing workflow, and tracking deliverables.

**Jitsik LLC** *Philadelphia, PA*

VIRTUAL REALITY DEVELOPMENT INTERN *Sep 2022 - Mar 2023*

- Designed a custom data extraction tool to capture user session metrics, producing reports for performance analysis.
- Incorporated passthrough into the VR Application for the Meta Quest 2 and Meta Quest Pro devices
- Created high-fidelity 3D environments optimized for VR, balancing detail and performance

## Awards, Fellowships, & Grants

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|---|---|---|
| 2025 | **Transforming Tech Scholarship,** Drexel University | |
| 2020 - 2025 | **Drexel Global Scholars (Full scholarship)**, Drexel University | $205,558 |
| 2024 | **Museum Innovation Fund,** Academy of Natural Sciences | |

## PEER REVIEW

†Recognition for Outstanding Reviews

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|---|---|
| ACM CHI | **2022**, **2023, 2024†, 2025†** |
| ACM UIST | **2025†**, |
| ACM CSCW | **2024**, **2025** |
| IEEE VR | **2022**, **2024, 2025** |
| IEEE ISMAR | **2022**, **2024** |
| ACM MM | **2021**, **2022** |
| Journal | **Springer Virtual Reality (2021)**, **IEEE SIGGRAPH (2024)** |

## OUTREACH

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|---|---|
| 2025 | **Drexel Women in Computing Society**, Faculty Advisor |
| 2025 | **Philly Codefest**, Judge |
| 2022-2024 | **Girls Who Code @ UCF**, Vice President, Co-founder |
| 2020-2022 | **ACM-Women (ACM-W) at UCF**, Mentor |
| 2018-2025 | **National Center for Women & IT (NCWIT)**, Aspirations in Computing Volunteer |