Devin Murphy

PhD Student, University of Washington ECE

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Google Scholar
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RESEARCH INTERESTS

I research how to create scalable, sustainable systems for sensing the human body and its interactions with the world. My interests are in fabrication techniques for low-profile wearables, wireless sensing, and physical artificial intelligence.

EDUCATION

University of Washington Sep. 2025 – Present
PhD in Electrical and Computer Engineering
Advisors: Yiyue Luo, Akshay Gadre

Massachusetts Institute of Technology Feb. 2024 – May 2025
M.Eng in Electrical Engineering and Computer Science
Advisors: Wojciech Matusik, Paul Pu Liang

Massachusetts Institute of Technology Sep. 2018 – May 2022
B.Sc in Electrical Engineering and Computer Science

University at Buffalo Sep. 2013 – May 2018
Gifted Math Program

PEER-REVIEWED PUBLICATIONS

** indicates equal contribution*

[4] Yuxin Ray Song[*], Jinzhou Li[*], Rao Fu[*], **Devin Murphy**, Rishi Shiv, Yaqi Li, Haoyu Xiong, Crystal E. Owens, Yilun Du, Yiyue Luo, Xianyi Cheng, Antonio Torralba, Wojciech Matusik, Paul Pu Liang. OPENTOUCH: Bringing Full-Hand Touch to Real-World Interaction. In *Preprint* doi:10.48550/arXiv.2512.16842

[3] **Devin Murphy**, Junyi Zhu, Akshay Gadre, Antonio Torralba, Paul Pu Liang, Wojciech Matusik, Yiyue Luo. WiReSens Toolkit: An Open-Source Platform Towards Accessible Wireless Tactile Sensing. In *ACM TEI 2026* doi:10.1145/3731739.3731780

[2] **Devin Murphy**, Yichen Li, Crystal Owens, Layla Stanton, Young Joong Lee, Paul Pu Liang, Yiyue Luo, Antonio Torralba, Wojciech Matusik. Fits Like a Flex-Glove: Automatic Design of Personalized FPCB-Based Tactile Sensing Gloves. In *ACM CHI EA 2025* doi:10.1145/3706599.3720147

[1] **Devin Murphy**[*], Jenny Moralejo[*], Paul Pu Liang. CalPal: An Intelligent Multimodal Digital Wall Calendar. In *ACM IUI Workshops 2025*

AWARDS, GRANTS, AND FELLOWSHIPS

UW ECE Research Showcase Best Demo 2026
Awarded by Apple, for the WiReSens Toolkit

Best Demo Honorable Mention, Jury's Choice 2026
ACM TEI 2026, for the WiReSens Toolkit

Open Hardware Creators in Academia Fellow 2025
Awarded by the Open Source Hardware Association

UW GSEE Graduate Research Fellowship 2025
Tuition, fees, and stipend for first year of PhD

UW College of Engineering Dean's Fellowship 2025
$10,000 additional stipend for four years of PhD

MIT Generative AI Impact Consortium Grant 2025
Co-writer of $150,000 grant, "Multimodal Tactile Sensing for Robotics"

Point Foundation Flagship Scholarship - Semifinalist 2025
Competitive scholarship for LGBTQ+ students

SELECTED TALKS

Introduction to Tactile Sensing October 2025
University of Notre Dame, Hosted by Prof. Tingyu Cheng

Electric Skin: Wearable Tech and the Future of Fashion September 2024
Cambridge Science Festival

SERVICE

Peer Review ⋆ *Outstanding Review Recognition*

ACM CHI Papers 2025, 2026⋆
ACM UIST Papers 2025⋆
ACM DIS Papers 2026⋆

Organizing Committee

CVPR Workshop - Sense of Space: Multi-Sensory Modeling for Embodied Intelligence 2026

TEACHING EXPERIENCE

Fabricating Interactive Artifacts with Tactile Sensing UW School of Design
Teaching Assistant 2025

Biomedical Signal and Image Processing MIT EECS
Teaching Assistant 2024

Circuits and Electronics MIT EECS
Lab Assistant 2020,2021,2022

PROFESSIONAL EXPERIENCE

The MathWorks Sept. 2022 – Feb. 2024
Quality Engineer
Natick, MA

Yoto May 2022 – Sept. 2022
Software Intern
London, England

MENTORSHIP EXPERIENCE

Juliette Park, Undergrad RA at UW, ongoing projects. 2025-ongoing

Tanishka Anandkumar, Undergrad RA at UW, ongoing projects. 2025-ongoing

Nicolas Valayannopoulos-Akrivou, Undergrad RA at MIT 2025

Eden Hen, Undergrad RA at MIT 2025

Isabel Wabno, Undergrad RA at UMass Amherst 2025

Layla Stanton, Undergrad RA at MIT, co-author on CHI EA 2025 paper 2025

SELECTED PRESS

UW News, Q&A: UW researchers create a smart glove with its own sense of touch January 2026

Hackster.io, Affordable Smart Gloves Bring Tactile Sensing to the Masses July 2025