Stanford

Pardis Miri

Basic Life Research Scientist, Genetics

Bio

BIO

Pardis Miri, PhD, is a Research Scientist and former Postdoctoral Fellow at Stanford University, where she develops technology aimed at improving mental well-being. She holds a PhD in Computer Science and has extensive training in affective science under Professor James J. Gross. Pardis leads a multidisciplinary team (http://wehab.stanford.edu
) conducting clinical and real-world studies to assess how wearable technologies can reduce stress and enhance glymphatic flow in early-stage Alzheimer's patients.

During her postdoctoral work, Pardis served as the principal investigator of FAR, a multi-disciplinary project to design, build, and evaluate an end-to-end wearable system for children with emotion dysregulation, including those diagnosed with autism spectrum disorder. FAR aims to support more adaptive emotion-regulation strategies through a combination of systems design and behavioral research.

Pardis is advised by Professors Michael Snyder, Keith Marzullo, and James J. Gross, and collaborates with Professor Antonio Hardan of the Stanford School of Medicine on research involving children with autism spectrum disorder.

HONORS AND AWARDS

- EAGER National Science Foundation Grant., Systems for Assisting in Emotion Regulation in the Wild. (2016-2020)
- Facilitating Affect Regulation in Youth with Autism Spectrum Disorder, Stanford eWear Seed Grant (2020-2021)

PROGRAM AFFILIATIONS

- SPARK at Stanford

PROFESSIONAL EDUCATION

- Postdoc, Stanford University , Psychology and Computer Science Supervisors: James Gross and Keith Marzullo (2022)
- PhD, University of California, Santa Cruz , Computer Science, HCI Supervisors: Katherine Isbister, James Gross, and Keith Marzullo (2019)
- MS, University of California, San Diego , Computer Science, Systems and Networking Supervisors: Keith Marzullo and Amin Vahdat (2013)
- BS, Amirkabir University of Technology, Tehran, Iran , Computer Engineering

PATENTS

- Pardis Miri; Robert Flory; Keith Marzullo; James Gross. "United States Patent S19-525 62/972,610 (S31-06632.PRO) Personalizable, Inconspicuous Vibrotactile Breathing Pacer", Stanford University, Feb 10, 2020
- Pardis Miri; Pankaj Garg; Benjamin Schultz;Sandeep Kishan Singhal; Madhan Sivakumar. "United States Patent 8806005 Cross-machine event log correlation", Microsoft Inc, Oct 8, 0179

LINKS

- Google Scholar: https://scholar.google.com/citations?user=wqIG4Q4AAAAJ&hl=en
- My Lab: http://wehab.stanford.edu

Research & Scholarship

PROJECTS

- Design, Engineer, and Evaluate Technologies to Facilitate Affect Regulation - Stanford University (2016 - 2022)

LAB AFFILIATIONS

- Michael Snyder, Snyder Lab (8/1/2023)
- James Gross, SPL (10/9/2016 - - 8/1/2023)

Professional

PROFESSIONAL INTERESTS

I am a life time learner with a broad experience and interests.

Haptics technology;

Emotion Regulation;

Brain Entrainment;

Product Design and Development;

Human Centered Design;

Human AI Interaction product design;

Publications

PUBLICATIONS

- **Challenges in Evaluating Technological Interventions for Affect Regulation** *IEEE TRANSACTIONS ON AFFECTIVE COMPUTING*
  Miri, P., Margarit, H., Uusberg, A., Marzullo, K., Ball, T. M., Yamins, D., Flory, R., Gross, J. J.
  2023; 14 (3): 2430-2442
- **FAR: End-to-End Vibrotactile Distributed System Designed to Facilitate Affect Regulation in Children Diagnosed with Autism Spectrum Disorder Through Slow Breathing**
  Miri, P., Arora, M., Malhotra, A., Flory, R., Hu, S., Lowber, A., Goyal, I., Nguyen, J., Hegarty, J., Kohn, M., Schneider, D., Culbertson, H., Yamins, et al
  ASSOC COMPUTING MACHINERY.2022
- **PIV: Placement, Pattern, and Personalization of an Inconspicuous Vibrotactile Breathing Pacer** *ACM TRANSACTIONS ON COMPUTER-HUMAN INTERACTION*
  Miri, P., Flory, R., Uusberg, A., Culbertson, H., Harvey, R. H., Kelman, A., Peper, D., Gross, J. J., Isbister, K., Marzullo, K.
  2020; 27 (1)
- **Evaluating a Personalizable, Inconspicuous Vibrotactile(PIV) Breathing Pacer for In-the-Moment Affect Regulation** *CHI Conference on Human Factors in Computing Systems*
  Miri, P., Jusuf, E., Uusberg, A., Margarit, H., Flory, R., Isbister, K., Marzullo, K., Gross, J. J.
  2020: 13
- **Using the Neuroscience of Fear Extinction for Anxiety Reduction: Study Design, Aims, and Preliminary Data**
  Ball, T., Miri, P., Williams, L.
  NATURE PUBLISHING GROUP.2019: 267–68
- **PortLand: A Scalable Fault-Tolerant Layer 2 Data Center Network Fabric**

Mysore, R., Pamboris, A., Farrington, N., Huang, N., Miri, P., Radhakrishnan, S., Subramanya, V., Vandat, A., ACM ASSOC COMPUTING MACHINERY.2009: 39–50