

EDUCATION**Doctor of Philosophy, Computer Science**

4.0/4.0 GPA

Bachelor of Engineering, Computer Science

3.95/4.0 GPA, minor in mathematics and honors program

Harvard University

Cambridge, MA

University of Kentucky

Lexington, KY

HONORS

NSF Graduate Research Fellowship

Barry M. Goldwater Scholar

March 2020

April 2019

PUBLICATIONS**Workshop**

- **Shin, E.**, Swaroop, S., Pan, W., Murphy, S. & Doshi-Velez, F. (2023). Modeling Mobile Health Users as Reinforcement Learning Agents. AAAI Workshop on AI for Behavior Change. Oral Presentation.
- **Shin, E.**, Klasnja, P., Murphy, S., & Doshi-Velez, F. (2021). Online structural kernel selection for mobile health. ICML Workshop on Interpretable Machine Learning in Healthcare (IMLH).

Conference

- **Shin, E.**, Klasnja, P., Murphy, S., & Doshi-Velez, F. (2021). Online model selection by learning how compositional kernels evolve. *Submitted to AISTATS 2022*.
- Dennler, N., **Shin, E.**, Matari, M., & Nikolaidis, S. (2021, September). Design and Evaluation of a Hair Combing System Using a General-Purpose Robotic Arm. In 2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) (pp. 3739-3746). IEEE.
- **Shin, E.**, Khamesi, A. R., Bahr, Z., Silvestri, S., & Baker, D. A. (2020, September). A user-centered active learning approach for appliance recognition. In 2020 IEEE International Conference on Smart Computing (SMARTCOMP) (pp. 208-213). IEEE.
- Mora, B. B., **Shin, E.**, CaraDonna, P. J., & Stouffer, D. B. (2020). Untangling the seasonal dynamics of plant-pollinator communities. *Nature communications*, 11(1), 1-9.
- Khamesi, A. R., **Shin, E.**, Silvestri, S. (2020, January). Machine learning in the wild: The case of user-centered learning in cyber physical systems. In 2020 International Conference on COMMunication Systems NETworkS (COMSNETS) (pp. 275-281). IEEE.
- Berglin, S., **Shin, E.**, Furst, J., Raicu, D. (2019, March). Efficient learning in computer-aided diagnosis through label propagation. In Medical Imaging 2019: Computer-Aided Diagnosis (Vol. 10950, p. 109501I). International Society for Optics and Photonics.

PRESENTATIONS

- **Shin, E.**, Dennler, N., Pocius, R., Zhang, H., Zamani, N., Culbertson, H., and Nikolaidis, S. (2019). Robot assisted hair-brushing. Demonstration track at Conference on Neural Information Processing Systems (NeurIPS).

ACADEMIC EXPERIENCE

May 2021 – Aug 2021	Visiting Researcher Benshi.ai — Barcelona, Spain
Jun 2019 – Aug 2019	NSF REU on Robotics and Autonomous Systems University of Southern California — Los Angeles, CA — PI: Assistant Professor Stefanos Nikolaidis
Dec 2017 – Present	Undergraduate Research University of Kentucky — Lexington, KY — PI: Assistant Professor Simone Silvestri
June 2018 – Aug 2018	NSF REU on Medical Informatics DePaul University — Chicago, IL — PI: Professor Daniela Raicu
May 2016 – Aug 2016	Research Internships in Science and Engineering (DAAD RISE) Karlsruhe Institute of Technology — Karlsruhe, Germany — PI: Professor Olaf Dossel

INVOLVEMENT

Oct 2021	Volunteer Moderator Methodology Center Summer Institute Workshop on Building Effective Just-in-time Adaptive Interventions Using Micro-Randomized Trial Designs
Dec 2016 – Dec 2017	ACM-W Founding Vice-Chair University of Kentucky Chapter — Lexington, KY Founding member and interim president of campus chapter ACM-W. Coordinated all on-campus meetings, organized Hour of Code and Appalachian Tech Workshop events.
Dec 2016 – Dec 2018	Volunteer Engineering Instructor Newton’s Attic Engineering Camp — Lexington, KY Assisted in teaching young students engineering skills such as design, manufacturing, and programming through hands on activities.