Farahnaz Wick

farahnaz@gmail.com · farahnazwick.com

Data analyst and computational cognitive scientist with a Ph.D. in Computer Science and 10+ years in statistical modeling and data analysis. In academia, I designed experiments and applied CNNs and predictive modeling to large-scale behavioral and image data. In industry, I build data systems and quality pipelines that turn field-collected data into decisions. Citizenship: USA

Skills

Languages & Tools Python (pandas, sklearn, pytorch, numpy, matplotlib), R, SQL, LookerML, Streamlit, JavaScript, Git
Platforms Snowflake, Looker
ML & Statistics Experiment design, CNNs, regression modeling, supervised/unsupervised classification, predictive modeling, time series analysis
Languages English, Bengali, Hindi

Experience

Data Analyst **May 2022 - Present**
Enveritas, nonprofit advancing sustainability for coffee farmers worldwide *Remote*

- Migrated the legacy scoring codebase into a typed framework with error logging and quality checks, reducing scoring errors by 98%
- Co-built the quality control and scoring engine that processes all field survey data collected worldwide; output powers every client report
- Developed linear regression models of fertilizer usage and agricultural yield for impact measurement
- Build and maintain Looker explores; resolve LookerML issues; query and analyze data in Snowflake
- Led data work for the Ethiopia Here We Grow public dashboard; deliver analytics for roaster clients and internal teams

Postdoctoral Research Fellow **2016 - March 2022**
Harvard Medical School, Brigham & Women's Hospital & MIT Center for Brains, Minds & Machines *Cambridge, MA*

- Designed and ran large-scale experiments collecting human visual attention and memory data; analyzed and modeled the results
- Applied CNN models to classify visual search patterns in eye-tracking data using MS COCO and large-scale behavioral datasets
- Built computational models of visual attention using deep neural networks and predictive modeling
- Published in top-tier journals, presented at conferences and invited talks; ad hoc reviewer for Nature, JEPG, APP, PLOS ONE, Frontiers in Neuroscience

Education

Ph.D. in Computer Science, University of Massachusetts Boston Dec 2016
Master of Arts in Psychology, Mount Holyoke College 2009
Bachelor of Arts in Computer Science, Mount Holyoke College (Mary Lyon Scholar, Sigma Xi) 2006

Selected Publications

Wolfe, J.M., Wick, F.A., Mishra, M., DeGutis, J., & Lyu, W. (2023). "Spatial and temporal massive memory in humans." *Current Biology*, 33(2), 405-410. doi:10.1016/j.cub.2022.12.040

Wick, F.A., Alaoui Soce, A., Wolfe, J.M. (2019). "Perception of dynamic scenes: What is your Heider Capacity?" *Journal of Experimental Psychology: General*.

Wick, F.A., Garaas, T.W., & Pomplun, M. (2016). "Saccadic adaptation alters the attentional field." *Frontiers in Human Neuroscience*, 10, 568. doi:10.3389/fnhum.2016.00568