

Farahnaz Wick

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Computational cognitive scientist with 10+ years in statistical modeling and data analysis. Transitioned from academic research — applying CNNs and predictive modeling to large-scale behavioral and image datasets — to industry, where I build data systems that power real-world decisions, currently at the intersection of tech and global sustainability. **Citizenship: USA**

SKILLS

Languages & Tools	Python (pandas, sklearn, pytorch, numpy, matplotlib), R, SQL, LookerML, Streamlit, MATLAB, JavaScript, Git, L ^A T _E X
Platforms	Snowflake, Looker
ML & Statistics	CNNs, regression modeling, supervised/unsupervised classification, predictive modeling, time series analysis
Communication	English, Bengali, Hindi

EXPERIENCE

Data Analyst May 2022 – Present
Everitas — nonprofit advancing sustainability for coffee farmers worldwide *Remote*

- Co-built the core scoring engine that processes all field survey data; output powers every client report
- Migrated legacy codebase into a typed framework with error logging, reducing scoring errors by **98%**
- 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*

- 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
- Designed experiments, analyzed and modeled results, published in top-tier journals, presented at conferences and invited talks
- Ad hoc reviewer: *Nature, JEPG, APP, PLOS ONE, Frontiers in Neuroscience*

Research Assistant 2009 – 2010
Harvard Vision Lab *Cambridge, MA*

- Programmed visual experiments; collected and analyzed behavioral data; maintained lab website

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

Aizenman, A., Ehinger, K., **Wick, F.A.**, Wolfe, J.M. (2022). "Using a Genetic Algorithm to explore shape space: Evolving the difficulty of visual search for shape." *Journal of Vision*.

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

Wu, C.C., **Wick, F.A.**, & Pomplun, M. (2014). "Guidance of visual attention by semantic information in real-world scenes." *Frontiers in Psychology*, 5, 54. doi:10.3389/fpsyg.2014.00054

Ahmed, F., Cohen, J.D., Binder, K.S., Fennema, C.L. (2010). "Influence of tactile feedback and presence on egocentric distance perception in virtual environments." *IEEE Virtual Reality*.