Stanford



Hamed Honari

Postdoctoral Scholar, Psychiatry

Bio

BIO

Hamed received his PhD in Electrical & Computer Engineering from Johns Hopkins University. With his background in Artificial Intelligence, Machine Learning, Statistical Signal/Image Processing and passion in software prototyping and proof of concept, he is interested in methodology development and application of AI in neuroimaging, computational neuroscience, and interdisciplinary research and development.

Before joining Stanford, he worked a Data Scientist at World Bank Group in Washington, DC where he used his background and research skills leveraging AI for innovative solutions and showcase effectiveness of technology-driven solutions in real-world contexts through design thinking research and PoV prototyping, including Computer Vision, Generative AI (LLMs), and NLP.

During his PhD, he worked on introducing new approaches for assessing time-varying functional brain connectivity. Currently, as a Postdoctoral Research Fellow, his interests are focused on use of data driven techniques and machine learning for neuroimaging in particular for assessing functional connectivity.

Hamed has shown a track record of applying research and problem solving across various domains and its corresponding domain data such as Healthcare, Financial and Public Sector, Energy and Interdisciplinary Engineering domains.

HONORS AND AWARDS

- Awarded Emerging Clean Energy Leadership Fellowship, NC Sustainable Energy Association
- Commitment to Service for Dedication and Work Award, NC Sustainable Energy Association

PROFESSIONAL EDUCATION

- PhD, Johns Hopkins University , Electrical & Computer Engineering (2022)
- MS, Johns Hopkins University , Electrical & Computer Engineering (2017)
- MS, NC State University, Mechanical Engineering (2013)
- $\bullet~$ BS, University of Tehran , Mechanical Engineering (2009)

LINKS

- $\bullet \ \ "Google\ Scholar": https://scholar.google.com/citations?user=eC-qGrgAAAAJ\&hl=en\&oi=aolitical and the substitution of t$
- "orcid": https://orcid.org/0000-0001-7932-9543

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Machine Learning, Neuroimaging, Computer Vision, Deep Learning, Signal Processing

Publications

PUBLICATIONS

RASopathies influences on neuroanatomical variation in children. Biological psychiatry. Cognitive neuroscience and neuroimaging
McGhee, C. A., Honari, H., Siqueiros-Sanchez, M., Serur, Y., van Staalduinen, E. K., Stevenson, D., Bruno, J. L., Raman, M. M., Green, T.
2024

• Mode decomposition-based time-varying phase synchronization for fMRI NEUROIMAGE

Honari, H., Lindquist, M. A.

2022; 261: 119519

Dynamic Functional Brain Connectivity Underlying Temporal Summation of Pain in Fibromyalgia ARTHRITIS & RHEUMATOLOGY

Cheng, J. C., Anzolin, A., Berry, M., Honari, H., Paschali, M., Lazaridou, A., Lee, J., Ellingsen, D., Loggia, M. L., Grahl, A., Lindquist, M. A., Edwards, R. R., Napadow, et al

2022; 74 (4): 700-710

Phase-locking of resting-state brain networks with the gastric basal electrical rhythm PLOS ONE

Choe, A. S., Tang, B., Smith, K. R., Honari, H., Lindquist, M. A., Caffo, B. S., Pekar, J. J.

2021; 16 (1): e0244756

Evaluating phase synchronization methods in fMRI: A comparison study and new approaches NEUROIMAGE

Honari, H., Choe, A. S., Lindquist, M. A.

2021; 228: 117704

• Investigating the impact of autocorrelation on time-varying connectivity NEUROIMAGE

Honari, H., Choe, A. S., Pekar, J. J., Lindquist, M. A.

2019; 197: 37-48

• Application priority of GSHP systems in the climate conditions of the United States (vol 13, pg 1, 2017) ADVANCES IN BUILDING ENERGY RESEARCH

Soolyeon, C., Saurabh, R., Piljae, Hamed, H., Jonghoon, A.

2019; 13 (1): III

Methodology for energy strategy to prescreen the feasibility of Ground Source Heat Pump systems in residential and commercial buildings in the United

States ENERGY STRATEGY REVIEWS

Cho, S., Ray, S., Im, P., Honari, H., Ahn, J.

2017; 18: 53-62

Economic Analysis of Ground Source Heat Pumps in North Carolina

Honari, H., Makhyoun, M., Sridhar, V., Hoover, K., ASHRAE

AMER SOC HEATING, REFRIGERATING AND AIR-CONDITIONING ENGS.2014

• PREDICTION OF FORCED CONVECTION FLOW IN A PARALLEL PLATE CHANNEL FILLED WITH POROUS MEDIA

Ehyaei, D., Honari, H., Rahimian, M., ASME

AMER SOC MECHANICAL ENGINEERS.2009: 631-635