KAMBIZ TAVABI

RÉSUMÉ

A scientist with over 10-years of experience in academic and biomedical research. I am a detail-oriented, reliable and independent worker who can offer technical versatility and intellectual creativity to your team. I have a Ph.D. in cognitive neuroscience and I routinely use experimental paradigms in combination with neuroimaging techniques and perform exploratory analysis or hypothesis-testing with big data to understand the relationship between the brain and behavior.

EDUCATION

UNIVERSITY OF MÜNSTER, MÜNSTER, GERMANY – PHD COGNITIVE NEUROSCIENCE, 2007

UNIVERSITY OF OREGON, EUGENE – MS COGNITIVE PSYCHOLOGY, 2004

UNIVERSITY OF CALIFORNIA, LOS ANGELES – BS PHYSIOLOGICAL SCIENCES, 2001

EXPERIENCE

RESEARCH SCIENTIST 2014-PRESENT

- Developing experimental paradigms to describe brain activity in infants and children during speech discrimination and language cognition tasks.
- Translating research to characterize abnormalities in autism with multimodal imaging data and A/B or two-sample hypothesis testing between clinical and normally developing populations. *Biological Psychiatry 2011*.
- Making use of Python scientific computing tools (Numpy, Scipy, PANDAS, Seaborn, Matplotlib, scikit-learn) to carry out analysis including machine learning classification of brain activity to speech stimulus.
- Perform hypothesis testing on behavioral or time-series data using analysis of variance techniques (univariate, repeated measures, mixed) and communicating results at professional conferences including *Organization for Human Brain Mapping*: Seattle, WA 2013, Honolulu, HI 2015, Vancouver, CA 2017, Singapore 2018.
- Using general regression (linear, mixed-linear) or correlation methods to link prospective or concurrent multimodal bio-behavioral metrics.
- Contribute to the open science community by contributing to Python computing software for dense array signal processing and analysis tools. *Journal of Open Source Software 2019.*

POSTDOCTORAL RESEARCHER 2008-2014

- Awarded $500K+ from ***Bezos Family Foundation*** and ***Simms/Mann Institute*** to develop and deploy basic research into auditory language learning during early childhood development.
- Improved the reliability of pre-operative diagnostic mapping of language brain function in pediatric patients.
- Designed experimental paradigms for studying brain physiology during speech discrimination and semantic processing. *Neuroreport 2011a, 2011b*.

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