



Jahanara Nares

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ABOUT ME

Computational Cognitive Neuroscience Masters Student
interested in consciousness, empathy and technology, aspiring PhD

HIGHLIGHTS

- Organized, Kind, Diligent
- Mathematics (Multivariable Calculus, Differential Equations+Linear Algebra, Probability+Statistics)
- Computing (Python - 9+ years, NumPy, Pandas, Scikit-learn, OpenCV, Matlab)
- Languages (proficient French, basic Spanish, and elementary Mandarin Chinese)

WORK EXPERIENCE

- Jun 2024 – Present: Research Assistant
Vision, Eye-tracking and Comp-Neuro Lab @ King's College London IOPPN, London UK
Aided in construction of biologically-relevant computational model of symmetry detection in the human visual system using a multi-scale phase-based algorithm. Conducted data analysis in Matlab for human experimental research used in parallel to computational model.
- Jun – Jul 2023: Data Engineering Consultant
Samuel Stubblefield Workshop, Beacon NY
Conducted literature review and created scientific-guide for electroencephalogram (EEG) data usage with Unicorn Hybrid-Black EEG system in use for data-visualization sculptures.
- Career Break :
Nov 2021 – Apr 2023 Self-Employed Artist
6-month artist residency exploring cognition and consciousness in London UK followed by 1-year collaboration with Pioneer Works institution in Brooklyn NY
- Aug – Nov 2021: Building Performance Data Analyst
ZeroEnvy, Remote
Performed energy modeling and analysis for buildings. Built machine learning software for energy sensor data analysis. • Utilized Python - Scikit-learn, AWS and API of historical weather data to build software that filled gaps on various timescales for missing sensor data in order to accurately model building energy consumption.
- Aug 2020 – May 2021: Student Clinic Intern
NASA/JPL, Pasadena CA
Built a mathematical model for probabilistic risk assessment of sample return missions. Worked in a team with four other engineering students. • Utilized R Studio, MATLAB, Multi Attribute Utility Theory (MAUT), bayesian statistics, and biological and chemical threat categorization research to build mathematical risk model.
- Jan – May 2020: Student Clinic Intern
Millennium Space Systems, Claremont CA
Built machine learning software in computer vision for satellite positioning. Worked in a team with five other engineering students. • Utilized Python, 3D conic section geometry, pinhole camera approximations, quaternion geometry, k-means, celestial frame of reference, linear algebra transformations and differential equations for position control and refraction elimination.
- Jan – May 2020: Research Assistant
Harvey Mudd Flow Imaging Lab, Claremont CA
Assisted in mechanical design for visualization in hypothesizing tail fin dynamics of jumping fish.

EDUCATION

- Sep 2024 – Present: Goldsmiths, University of London, London UK
M.Sc. Computational Cognitive Neuroscience
- 2017 – 2021: Harvey Mudd College, Claremont CA
B.Sc. Engineering
Dean's List
Relevant Coursework:
Mathematics: Multivariable Calculus, Linear Algebra, Differential Equations
Physics: Mechanics & Wave Motion, Electromagnetic Theory & Optics
Engineering: Advanced Systems Engineering I & II, Dynamics of Rigid Bodies, Fluid Mechanics, Structural Mechanics, Materials Engineering, Digital Electronic & Computer Engineering
- Jul – Aug 2015: Girls Who Code, New York NY
Hosted by AT&T Manhattan
Summer Coding Intensive
- Jul – Aug 2014: Oxbridge Academic Summer Program - Cambridge University
Computer Science major and Biomedical Sciences minor
- 2013 – 2017: United Nations International School, New York NY
International Baccalaureate Diploma
HL Mathematics, Biology and Chemistry
SL Chinese, Psychology and Literature and Performance
- Jul – Aug 2011: Center for Talented Youth - Johns Hopkins University
Hosted by Stanford University
Summer Program in Mathematical Modeling and Poetry