



# MAHBOD NOURI

ML Researcher

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[mahbod.me](http://mahbod.me)

PhD researcher in Computational Neuroscience specializing in Deep Learning, Brain-inspired AI, and TinyML. Focused on building efficient and adaptive neural architectures for edge and embedded intelligence.

## EDUCATION

### PhD in Computational Neuroscience

University of Bremen

Apr. 2023 – Present

Bremen, Germany

### MSc in Cognitive Science

University of Edinburgh

Sep. 2021 – Sep. 2022

Edinburgh, United Kingdom

### BSc in Mechanical Engineering

University of Tehran

Sep. 2016 – Sep. 2020

Tehran, Iran

## SELECTED PUBLICATIONS

### Interleaving cortex-analog mixing improves deep non-negative matrix factorization networks

Mahbod Nouri, David Rotermund, Alberto Garcia-Ortiz, Klaus R. Pawelzik (2025)

Frontiers in Computational Neuroscience.

### BioLCNet: Reward-modulated Locally Connected Spiking Neural Networks

Hafez Ghaemi\*, Erfan Mirzaei\*, Mahbod Nouri\*, Saeed Reza Kheradpisheh (2022).

Lecture Notes in Computer Science. [https://doi.org/10.1007/978-3-031-25891-6\\_42](https://doi.org/10.1007/978-3-031-25891-6_42)

### Toward Real-World BCI: CCSPNet, A Compact Subject-Independent Motor Imagery Framework

Mahbod Nouri\*, F. Moradi\*, H. Ghaemi\*, A. M. Nasrabadi (\*Equal Contribution)(2022).

Digital Signal Processing. <https://doi.org/10.1016/j.dsp.2022.103816>

## SELECTED CONFERENCES AND PRESENTATIONS

### (Poster) Bernstein Conference in Computational Neuroscience

Frankfurt am Main, Germany

Sep. 2024

### Cortical Prostheses – Interdisciplinary Research towards Artificial Vision for the Blind

Hanse-Wissenschaftskolleg, Delmenhorst, Germany

Sep. 2023

### (Oral) 2nd Advanced Course and Symposium on Artificial Intelligence and Neuroscience

Certosa di Pontignano, Castelnuovo Berardenga (Siena), Tuscany, Italy

Sep. 2022

## INTERNSHIP

### AI Research Intern

Artificial Intelligence in Mechanical Engineering (AIME) Lab

Summer 2020

University of Tehran

- Developed a COVID-19 diagnosis model from crowd-sourced cough audio data
- Developed a real-time face mask detection system
- Image Segmentation on CT Scan COVID-19 Infection using Convolutional Neural Networks

## VOLUNTEER EXPERIENCE

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- Lecturer** since Jan. 2021  
Python Programming Lecturer at Kaaryar College, a social start-up providing programming education
- Organizing Committee** Sep. 2023  
Organizing the *Machine Learning and its Applications* summer school at the University of Bremen

## SKILLS

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**Languages:** English (C1), German (A2), Farsi/Persian (Native)  
**Programming:** Python (PyTorch, TensorFlow, Keras, Scikit-learn, Flask), Julia, C++, R  
**Age of Empires 2:** I'm really good at it.

## HONORS AND AWARDS

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- LBSV Football League** 2024  
3rd League Champions with the University of Bremen Team
- Fifth National Brain-Computer Interface (BCI) Competition** June 2022  
Third Rank in the National Brain-Computer Interface (BCI) Competition  
Focusing on Auditory Attention held by National Brain Mapping Laboratory (NBML)
- Oxford Hackathon** Feb. 2022  
Winner of the Sponsor Challenge
- HackTheBurgh VIII Hackathon** Feb. 2022  
Second Place