

SINA MORADI

Erlangen, Germany

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Personal Website



At a very young age, I was fascinated by how a computer works. I always wanted to know more. As a result, I pursued Computer Engineering as my bachelor's degree learned from many courses, and did different projects. I learned how software and hardware work together to create meaningful results. As I learned more about Artificial Intelligence, I became more interested in how the human brain works, what influences it, and the similarities between the two.

EDUCATION

- M.Sc. - Artificial Intelligence, FAU Friedrich-Alexander-Universität Erlangen-Nürnberg [↗](#) October 2023 - Present
- B.Sc. - Computer Engineering - Computer Systems Architecture, Islamic Azad University Tehran Central Branch [↗](#) February 2017 - February 2022

EXPERIENCES

Teaching:

- Advanced Programming Tutor [↗](#) January 2022 - June 2022
- Software Engineering Lab Teaching Assistant [↗](#) February 2022 - June 2022
- Design Algorithms Teaching Assistant [↗](#) February 2022 - June 2022
- Computer Networks Teaching Assistant [↗](#) February 2022 - June 2022
- Computer Application Teaching Assistant [↗](#) September 2021 - June 2022
- Computer Programming Teaching Assistant [↗](#) September 2021 - January 2022
- Operating Systems Lab Teaching Assistant [↗](#) June 2020 - January 2021
- Digital Electronics Teaching Assistant [↗](#) February 2020 - June 2020
- Digital Systems Design Teaching Assistant [↗](#) January 2020 - June 2022

Vocational:

- Service and Support Engineer, KeyLead Team - Adanic [↗](#) August 2022 - August 2023

Attended Conferences:

- 6th Sharif Neuroscience Symposium [↗](#) March 2024
- 6th IPM Advanced School on Computing - Artificial Intelligence [↗](#) September 2022
- 4th Sharif Neuroscience Symposium [↗](#) March 2022
- 5th IPM Advanced School on Computing - Artificial Intelligence [↗](#) September 2021
- Amirkabir Artificial Intelligence Student Summit of 2021 [↗](#) August 2021
- Brain and Mind, SHENASA Association, Sharif University of Technology [↗](#) June 2021
- Brain development and neuropsychiatric disorders, Federation of European Neuroscience [↗](#) May 2021
- 3rd Sharif Neuroscience Symposium [↗](#) March 2020

COURSES

- Data Science: Foundations using R Specialization, Coursera, Johns Hopkins University [↗](#) Ongoing
- Information Security, freeCodeCamp [↗](#) Ongoing
- Introduction to Dynamical Systems and Chaos, Complexity Explorer, Santa Fe Institute [↗](#) Ongoing
- CS230: Deep Learning, Stanford University [↗](#) Ongoing
- Pandas with Python for Data Science, Udemy [↗](#) Ongoing
- Learn VHDL from the beginning for FPGA and CPLD development, Udemy [↗](#) Ongoing
- R Programming: For Data Science With Real Exercises, Udemy [↗](#) Ongoing
- Automate the Boring Stuff with Python Programming, Udemy [↗](#) Ongoing
- The Complete Python 3 Course: Beginner to Advanced!, Udemy [↗](#) Ongoing
- Mathematics for Computer Science, Coursera, Goldsmiths - University of London [↗](#) Ongoing
- Algorithms Specialization, Coursera, Stanford University [↗](#) Ongoing
- Deep Learning Specialization, Coursera, DeepLearning.AI [↗](#) Ongoing
- Machine Learning, Coursera, Stanford University [↗](#) Ongoing
- Mathematics for Machine Learning Specialization, Coursera, Imperial College London [↗](#) Ongoing
- AI in Healthcare Specialization, Coursera, Stanford University [↗](#) Ongoing

- Human Connectome Project: Exploring the Human Connectome Project Database, Sharif University of Technology [↗](#) March 2022
- A glance at the computational neuroscience: From Single Neuron to Plastic Networks, Sharif University of Technology [↗](#) March 2022
- MATLAB, Sharif University of Technology [↗](#) August 2021 - October 2021
- Intermediate Bioinformatics, Hippocampus Association, Ardabil University of Medical Sciences [↗](#) August 2021 - September 2021
- Imbalanced classification and Focal loss, Student's Scientific Chapter, Amirkabir University of Technology [↗](#) August 2021
- Discriminative Feature Learning and Face Recognition, Student's Scientific Chapter, Amirkabir University of Technology [↗](#) August 2021
- Graph Signal Processing in Machine Learning, Student's Scientific Chapter, Amirkabir University of Technology [↗](#) August 2021
- Cognitive Neuroscience: The Biology of The Mind, Brain and Cognition Association, Ahvaz Jondishapur University of Medical Sciences [↗](#) June 2021 - September 2021
- fMRI Workshop, Sharif University of Technology [↗](#) February 2021

PROJECTS

- Personal Website [↗](#) April 2022 - July 2022
- Computer Systems Architecture Project (B.Sc. Project) [↗](#) September 2021 - April 2021
- Digital System Design Project [↗](#) September 2019 - January 2020
- Digital Electronics Project [↗](#) December 2018 - May 2019
- EverConnect [↗](#) March 2018 - December 2022
- Microprocessor and Assembly Language Project [↗](#) December 2018 - May 2019
- Data Structure Project [↗](#) January 2018 - May 2018

SKILLS

- **Programming:** NumPy, Pandas, VHDL, Python, Bash Scripting, C++, Jupyter
- **System Administration:** Docker, Kubernetes, Linux, Ubuntu, CentOS, TinyOS, Windows Server, Virtualization, Database
- **Design:** Adobe XD, Figma
- **Soft skills:** Teamwork, Communication, Improves based on feedback, Learning agility, Problem-solving, Critical thinking, Prioritization, Friendly, Continuous learning
- **Others:** Network+, LaTeX, Git, Markdown, Microsoft Office, Zotero, MEGA-X, Clustal, Jalview, HC Workbench, ModelSim, PSpice, HTML, CSS, Javascript, Scrum, Jira

LANGUAGES

- **Persian:** Native proficiency
- **English:** Full professional proficiency (IELTS: 7, CEFR: C1)
- **French:** Working proficiency
- **German:** Working proficiency

RESEARCH INTEREST

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|-----------------------------|---------------------|--------------------|-----------------------|
| • Cloud Computing | • FPGA | • Embedded Systems | • Bioinformatics |
| • Software Defined Networks | • Machine Learning | • Cybersecurity | • Neuroscience |
| • Networks on Chip | • Quantum Computing | • IoT | • Pattern Recognition |

PUBLICATIONS

- Edgar I. Campos-Madueno; Melika Moradi; Yasmine Eddoubaji; Fatemeh Shahi; **Sina Moradi**; Odette J. Bernasconi; Aline I. Moser; Andrea Endimiani. "Intestinal colonization with multidrug-resistant Enterobacteriales: screening, epidemiology, clinical impact and strategies to decolonize carriers" European Journal of Clinical Microbiology & Infectious Diseases [↗](#) 01-2023

REFERENCES

- Dr. Ali Harounabadi, Faculty Member, Dean of Computer Engineering and Information Technology, Analysis and Design of Systems lecturer
✉ a.harounabadi@iauctb.ac.ir
- Dr. Samira Saeidi, Faculty Member, Bachelor Project Advisor, Digital System Design and Digital Electronics lecturer
✉ s.saeidi@iauctb.ac.ir
- Dr. Touraj Banirostam, Faculty Member, Data Transmission lecturer
✉ banirostam@iauctb.ac.ir