

SEYED AMIR BIDAKI

CONTACT INFORMATION

- Email Address : SeyedAmirBidaki@gmail.com
- Phone Number : +98 936 50 40 969
- LinkedIn : [Click](#)
- Address : Alborz, Iran

EDUCATION

- **B.Sc in Computer Science**, University of Guilan, Guilan, Iran • 2024

Overall GPA : 18.5 / 20 (3.89 / 4.00)

Major GPA : 18.67 / 20 (3.93 / 4.00)

- **Diploma in Physics and Mathematics**, Allame Sharani High School, Karaj, Iran • 2019

RESEARCH INTERESTS

- Deep Learning
- Pattern Recognition
- Machine Learning
- Learning Theory

PUBLICATIONS

- **“Online Continual Learning: A Systematic Literature Review of Approaches, Challenges, and Benchmarks” Under Review (Arxiv [Link](#))** • 2025

Seyed Amir Bidaki, et al.

We conducted a systematic literature review on online continual learning, analyzing over 2,000 publications and, after quality assessment, extracting detailed data from 81 key articles. Our study covered strategies, learning settings, evaluation metrics, benchmarks, datasets, and quality attributes, resulting in a 46-page manuscript. I was the first author and the main initiator of the project, contributing to all phases — from idea conception and methodology design to analysis and writing. **This paper is currently under review at *Neural Network (Elsevier)*.**

- **Projects In Progress**

- **“Continual Learning in Neuroimaging: A Comprehensive Survey and Benchmark Study”**

Currently, I am extending my research to neuroimaging applications, focusing on tasks such as tumor segmentation, modality registration, and disease classification. Our work systematically analyzes existing approaches in terms of model components, evaluation metrics, datasets, and methodologies. We also aim to propose standardized benchmarks and continual learning settings—such as domain incremental segmentation—to guide future research in this field.

- **“Brain Tumor Classification Using Wavelet-Enhanced Transfer Learning with Dual ResNet Networks”**

Focused on MRI-based brain tumor classification using deep learning and transfer learning. Achieved high accuracy on public datasets and explored feature fusion between spatial and frequency domains.

- **“Speech and Virtual Reality–Based Emotion Recognition Project”**

Focused on emotion recognition through speech processing and virtual reality environments. Currently in the early stages, involving literature review and paper collection on multimodal emotion recognition frameworks and affective computing.

HONORS AND AWARDS

- **Ranked 1st** among about 60 students of the Computer Science in all educational semesters, class of 2019, University of Guilan
- **In Top 10 highest Overall GPA ranking** among all Computer Science students (more than 400 students) from 2015 until now, University of Guilan
- Recognized as the Top Academic Student at the University of Guilan and recipient of the top academic award, University of Guilan, 2024

TEACHING EXPERIENCES

- **Head Teaching Assistant** - University of Guilan Fall 2023
- Computer Principles and programming
 - Designing and grading assignments and projects, teaching algorithms, flowcharts, and C++ basics, coordinating and managing teaching assistants
 - **Instructor: Dr.A. Tabatabaei & Dr. Sadegh Eskandari** (more than 90 students)
- **Teaching Assistant** - University of Guilan Spring 2023
- Advanced Programming
 - Reviewed and solved exercises related to the taught topics, provided support to students in understanding key concepts
 - **Instructor: Dr. Sadegh Eskandari** (more than 50 students)
- **Teaching Assistant** - University of Guilan Spring 2024
- Principles of Computer Systems
 - Reviewed and clarified taught concepts, explained and resolved issues related to logical circuits
 - **Instructor: Dr. Sadegh Eskandari** (more than 60 students)
- **Teaching Assistant** - University of Guilan Fall 2024
- Artificial Intelligence
 - Reviewed and solved exercises on taught concepts, taught key aspects of search algorithms, constraint satisfaction problems, and other relevant topics
 - **Instructor: Dr. Sadegh Eskandari** (more than 50 students)
- **Teaching Assistant** - University of Guilan Fall 2024
- Design & Analysis of Algorithms
 - Reviewed and solved exercises on taught concepts, provided support to students in understanding key concepts such-as: algorithm complexity, search algorithms and etc
 - **Instructor: Prof. Maziar Salahi** (more than 60 students)
- **Teacher** - Pojohan Educational Complex karaj, Iran 2024
 - Teaching : Introduction to Algorithm Design and Python Programming

ACADEMIC PROJECTS

- Implemented ML algorithms for classification, prediction, and neural networks for image recognition. Used genetic algorithm for optimization and sentiment analysis with RNNs, achieving high accuracy across various tasks.
- Optimized a neural network for XOR recognition using genetic algorithms. Applied crossover, mutation, and fitness evaluation to minimize error, achieving convergence and visualizing error reduction over generations.
- Developed solvers for the 8-puzzle using A* search, and for Sudoku using Genetic Algorithm and Simulated Annealing, optimizing performance with heuristic evaluation, evolutionary techniques, and temperature control.
- Implemented random number generation algorithms, queue simulations, and MLE with exponential, Poisson, and geometric distributions. Used Python and Matplotlib.

- Simulated various scheduling algorithms (FCFS, SPN, HRRN) and developed a Gantt chart for process execution. Emphasized kernel-level and user-level interactions with random process arrival and burst time generation using uniform and normal distributions

SELECTED COURSES

- Artificial Intelligence: 20 / 20 (Ranked 1st)
- Principles of Database Design: 20 / 20 (Ranked 1st)
- Data Structures and Algorithms: 19.25 / 20 (Ranked 1st)
- Computer Simulation : 20 / 20 (Ranked 1st)
- Computer Networks : 20 / 20 (Ranked 1st)

[The full "Transcript of Grades" file of my bachelor's degree can be downloaded on this PDF \(click here\)](#)

WORK EXPERIENCES

- **Research Assistant** - University of Guilan Sep 2023 - Present
 - Supervised by: Dr.Sadegh Eskandari, Dr Maziar Salahi
- **Member of the Teaching Assistants association** Fall 2023
 - Faculty of Mathematical science, University of Guilan
 - Solving exercises and problems in the "Computer Principles and Programming Basics" Course for students of the Faculty of Mathematical Sciences. (On-Site)
- **Computer laboratory manager** Feb - Oct 2024
 - Faculty of Mathematical Science, University of Guilan
 - Maintained, updated, and troubleshoot the network and software of laboratory computers. (On-Site)

LANGUAGES

- **Persian : Native** • **English : Advanced**
(IELTS Score: Overall: 7 , Listening: 7 , Reading: 8.5 , Writing: 6.5 , Speaking: 6.5)

VOLUNTARY ACTIVITIES

- **Member of Computer Science Student Scientific Association** Feb 2023 – May 2024
 - Faculty of Mathematical science, University of Guilan
 - Acted as organizer, judge, and supporter for ICPC and ACM competitions for the university students and students from the National Organization for the Development of Exceptional Talents (NODET) in Guilan province.S

COURSES & CERTIFICATES

- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms
- Applied Reinforcement Learning with Python
- Stanford-DeepLearning.AI
- Stanford-DeepLearning.AI
- FaraDars

REFERENCES

- **Dr. Sadegh Eskandari, Assistant professor at the University of Guilan**
 - Email : eskandari@guilan.ac.ir
- **Dr. Maziar Salahi, Professor at the University of Guilan**
 - Email : salahim@guilan.ac.ir
- **Dr. A.Tabatabaei, Assistant professor at the University of Guilan**
 - Email : amirhossein.tabatabaei@guilan.ac.ir