

Ziba Imani

PERSONAL INFORMATION

- DoB: 8th of September 1992
- Email: zibaimani@gmail.com
- Cell Phone: +989185575861



EDUCATION

- M.Sc. in Information Technology (IT) - Multimedia, Razi University of Kermanshah, Faculty of Engineering, Department of Computer Engineering and Information Technology, Kermanshah, Iran, *September 2015- January 2019*
 - ✓ GPA: 3.70 out of 4.0 (17.78 / 20)
 - ✓ Ranked Top 2 among 12
 - ✓ Thesis Title: Improve Fundamental Frequency Estimation of Speech Signals
- B.Sc. in Information Technology(IT), KUT University, Faculty of Engineering, Department of Engineering and Information Technology, Kermanshah, Iran, *September 2010 - February 2015*
 - ✓ GPA: 3.22 out of 4 (15.12 / 20)
- Diploma. Razi high school, Mathematics field, 2010
 - ✓ GPA: 3.93 out of 4 (19.5 / 20)

THESIS RESEARCH

- Research on **Improve Fundamental Frequency Estimation of Speech Signals** as *M.Sc. thesis*, under Supervision of Dr. Seyed Jahanshah Kabudian, Razi University of Kermanshah.
- Research on **Digital Signal Processing (DSP), Speech Processing, Fundamental Frequency Detection, F₀ detection and Pitch detection algorithms**, under Supervision of Dr. Seyed Jahanshah Kabudian, Razi University of Kermanshah.
- Study on **Neural Network, Nonlinear Fusion, Machine Learning, Linear combination, Regularization**, under Supervision of Dr. Seyed Jahanshah Kabudian, Razi University of Kermanshah.

PUBLICATIONS

1. Imani, Z. and S.J. Kabudian, "A Regularized Least Squares-Based Method for Optimal Fusion of Speech Pitch Detection Algorithms," in 2018 4th Iranian Conference on Signal Processing and Intelligent Systems (ICSPIS). 2018. IEEE.
2. Imani, Z. and S.J. Kabudian, "A Neural Network-Based Optimal Nonlinear Fusion of Speech Pitch Detection Algorithms," in 2019 5th Conference on Knowledge Based Engineering and Innovation (KBEI). 2019. IEEE.
3. A. Parvizi, M. Kazemifard and Z. Imani, "Fast Online Character Recognition Using a Novel Local-Global Feature Extraction Method," 2021 12th International Conference on Information and Knowledge Technology (IKT), 2021, pp. 183-187, doi: 10.1109/IKT54664.2021.9685875. IEEE.
4. A. Parvizi, M. Kazemifard, Z. Imani, S.M. Kheiralmousavi, J. Karami, "GMATS: Graphology based Math Affective Tutoring System", (decision in process, Expert Systems with Applications Journal, 2023).

COURSE RESEARCH

- Study on **Image Processing Methods in MATLAB** with the subject of "*A new technique for distance measurement of between vehicles to vehicles by plate car using image processing*", under Supervision of Dr. Abdollah Chaleh Chaleh, Razi University of Kermanshah.
- Study on **Design Patterns in Software Engineering, Learning about different type of patterns on Creational, Structural and Behavioural design patterns**, under Supervision of Dr. Farhad Mardukhi, Razi University of Kermanshah
- Study on **Data Compression and Lossless Compression** with the subject of "*A new algorithm called b64pack for compression of very short text messages*", under Supervision of Dr. Abdolhossein Fathi, Razi University of Kermanshah
- Study on **Setup VoIP System in Elastix and Asterisk, Mobile peer-to-peer video streaming over information-centric network**, under Supervision of Dr. Mahmood Ahmadi, Razi University of Kermanshah
- Study on **3D Animation in Maya, Creating animation with C++, OpenGL in C++**, under Supervision of Dr. Mehrdad Ahmad zadeh Raji, Razi University of Kermanshah.
- Study on **Comparison of the Decision Tree Algorithm for Data Mining**, under Supervision of M. Behzad Moradi, KUT University of Kermanshah.

TEACHING AND WORK EXPERIENCE

- Senior Software Engineer, Niroooye Gharb Company 2019-2021
✓ Developed a software for **Climate Control in Greenhouse using Intelligent Control**,
- Frontend Developer, Shenakht Company 2017-2019
✓ Developed two android applications:
1. **Neuro Advise**: an application for helping neuropsychologists
2. **Children Paint**: an application for children competition
- Collaboration in setting up a computer laboratory, KUT Spring 2014

- Teaching Assist (TA), **Artificial Intelligence**, KUT *Spring 2014*
- Teaching Assist (TA), **Basics of computer programming**, KUT *Spring 2013*

AWARDS AND HONORS

- Graduated as the 2nd place among M.Sc. students of Razi University of Kermanshah.
- Ranked in 99.5th percentile (Ranked 250nd among more than 50,000 participants) in the exam of Iran National University Entrance for M.Sc. degree, Fall 2015

RESEARCH INTERESTS

- Machine Learning
- Neural Networks
- Deep Neural Networks
- Signal Processing
- Image Processing

SKILLS

- Programming: C++, MATLAB, C#, Python, HTML, CSS, Java Script, SQL, SASS, Backbone.js
- Machine Learning knowledge
- Databases: MSSQL-Server ,MySQL, Microsoft Access
- Graphic Software: Adobe Photoshop, CorelDRAW Graphic Suite
- Animation design software: MAYA, Adobe Flash

LANGUAGE

- **English**
IELTS Academic Overall Score 6
- **Persian**
First Language-Native
- **Kurdish**
Second Language-Native

REFERENCES

- Seyed Jahanshah Kabudian, Assistant Professor, Razi University of Kermanshah, Iran, kabudian@razi.ac.ir
- Mahmood Ahmadi, Associated Professor, Razi University of Kermanshah, Iran, m.ahmadi@razi.ac.ir,
- Abdolhossein Fathi, Associated Professor, Razi University of Kermanshah, Iran, a.fathi@razi.ac.ir
- Mohammad Kazemifard, Assistant Professor, Razi University of Kermanshah, Iran, m.kazemifard@razi.ac.ir