

Mahshad Javidan

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INFORMATION Female, 25 mahshad.javidan@gmail.com

RESEARCH Signal Processing, Brain-Computer Interface (BCI), Affective
INTERESTS Computing, Image Processing, and Biomedical Instruments

EDUCATION **University of Isfahan**

M.Sc., Biomedical Engineering, Bioelectric 2015 to 2018

- Master Thesis: *Emotion Recognition Using EEG Signal with Minimum Number of Electrodes*
- Overall GPA: 18.03/20

B.Sc. Biomedical Engineering, Bioelectric 2010 to 2015

- Bachelor Thesis: *Detection and Classification of Pacemaker Malfunctions*
 - Overall GPA: 17.29/20
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RESEARCH **Research Assistant**
EXPERIENCE Affective Computing, 2015 to 2018
University of Isfahan,
Supervisors: Mohammadreza Yazdchi and Amin
Mahnam

Research Assistant
Brain-Computer Interface, 2016 to present
Isfahan Neuro Technology Laboratory,
Supervisor: Amin Mahnam

Educational EEG signal Processing Workshop Winter 2016
EXPERIENCE A 30-hour intensive introduction to EEG signal Processing
and its Application to computational neuroscience,
National Brain Mapping Lab.

English Article Writing Workshop Summer 2017
A 21-hour Writing course,
University of Isfahan

Advanced Statistical Methods for Rigorous Assessment of
Findings in Scientific Reports Summer 2018
A 6-hour workshop organized by Student Scientific
Association,
University of Isfahan

HONORS & AWARDS	Ranked 3 rd Top student in B.Sc. degree	July 2015
	Student Awards – University of Isfahan	
	• M.Sc. Scholarship	September 2015
	Ranked 1 st Top student in M.Sc. degree	May 2018

PUBLICATIONS	1. M. Javidan , M. Maghsoodi, A. Mahnam, “Emotion-based Architecture Design using Visual Perception of Artificial Environment,” <i>Journal of Neural Engineering</i> . (to be submitted)
	2. M. Javidan , A. Mahnam, M.R. Yazdchi, “Feature selection based EEG channel reduction for Emotion Recognition,” <i>IEEE Transactions on Affective Computing</i> . (to be submitted)

TEACHING EXPERIENCE	Teaching Assistant
	• Designed and graded assignments, Introduction to Biomedical Engineering , Dr. Amin Mahnam Fall 2015
	• Provided assistance to students in laboratory experiments, Neuro Technology Lab 2016 to present

PROFESSIONAL EXPERIENCE	Medical Instrument Apprentice	Summer 2013
	Shahid Beheshti Educational and Medical center	
	Supervisor: Masoud Soleymani	

SELECTED ACADEMIC PROJECTS	Heart Beat Detector	Spring 2012
	Course: Logic Circuits and Digital Systems, Dr Rasti	
	Design and Development of ECG Amplifier	Fall 2014
	Course: Biomedical Instruments, Dr Mahnam	
	Detection of ECG characteristic points using Wavelet transform	Fall 2015
	Course: Biomedical Signal Processing, Dr Yazdchi	
	Classification of Ocular images	Spring 2016
	Course: Digital Image Processing, Dr Moallem	
	CSP Method for Channel Reduction in SSVEP-based BCI	Fall 2016
	Course: Non-linear Optimization, Dr Marateb	

SPECIALIZED SKILLS Expert:
EEG signal Processing (MATLAB)
AVR Programming (CodeVision AVR)
Altium Designer
Brain Computer Interface
C++/C
Microsoft Office
Familiar:
C#
Android
Image Processing
ARM

LANGUAGE SKILLS **Persian**, Native
English, Fluent
MHLE Score: 81/100

STRENGTHS of BEHAVIOR Social Communication
Flexibility
Commitment and Motivation
Team Work

ABOUT ME I am working in the field of Affective Computing and BCI systems. My research interests include EEG signal processing and cognitive neuroscience.
