

# ALIREZA AKHAVANPOUR

LAST UPDATE: 2021 08 AUGUST

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Github: <https://github.com/Alireza-Akhavan>

Google Scholar: <https://scholar.google.com/citations?user=u3EPfZcAAAAJ>

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## DEGREES

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- 9/2013 – 12/2015                      Shahid Rajaee University ([SRTTU](https://www.srttu.ac.ir/)) -Tehran - Iran, M.S.  
Major: software engineering
- Thesis: “A Comparative Study of varying parameters in invariant object recognition at behavioral and computational-cognitive model level”
  - Advisor: Prof. Dr. Reza Ebrahimpour
  - Final Grade: 18.07
- 9/2009 – 8/2013                      Shahid Rajaee University(SRTTU) -Tehran - Iran , B.S.  
Major: software engineering

## OTHER EDUCATION AND EXPERTISE

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- Dec 2018                      Deep Learning Specialization by deeplearning.ai (Coursera)
- April 2017                      Deep Learning with TensorFlow (IBM Cognitive Class)
- November 2016                      Machine Learning (Verified Certificate from Stanford University)
- November 2015                      Mini-Workshop on Deep Learning (Certificate of attendance from SRTTU)

## LANGUAGE SKILLS

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Persian:

Native

English (Based on recent IELTS mock test – with no certificate):

Overall: 6.5 (Speaking:6.5 | Reading: 6.5 | Listening:6.0 | Writing: 6.0)

## CURRENT EMPLOYMENT

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- 2018-Now                      **Researcher and developer, [Shenasa.ai](https://shenasa.ai/)** (Tehran – Iran)
- Face and document verification
  - Face anti-spoofing
  - Face Recognition Software
  - Car number-plate recognition
  - Car model detection

- Gesture recognition
- Document and ID card OCR
- Online authentication
- Face SDK for raspberry pi
- Chat bot (in progress)

2018-Now  
(part-time)

Startup Mentor, [HamTech](#) (artificial intelligence accelerator)

- Event mentor
- Persian TTS (Text to speech)
- Persian Speech to text

## PREVIOUS WORK EXPERIENCE

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2016-2018  
(part-time)

Mahak Rayan (Tehran – Iran)

- Computer Vision and Deep Learning Developer and Researcher

2015-2017  
(part-time)

Shabake-hamrah-danesh (Tehran-Iran)

- Team leader – software developer

2011-2015  
(part-time)

[ibm.co.ir](http://ibm.co.ir) (Tehran-Iran)

- Part time developer
- team leader (QC)

## CAREER BREAKS

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August 2017 - September 2018      Military service

## IN PROGRESS PAPERS

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- Hand gesture recognition (with collaboration with Dr Sabokrou)

## RESEARCH OUTPUT

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- Esmaeili, B., Akhavanpour, A., & Sabokrou, M. (2021). Maximising robustness and diversity for improving the deep neural network safety. *Electronics Letters*, 57(3), 116-118.  
(<https://ietresearch.onlinelibrary.wiley.com/doi/pdf/10.1049/ell2.12070>)
- Modarres, M. H., Khazaie, V. R., Ghorbani, M., Ghoreyshi, A. M., AkhavanPour, A., Ebrahimpour, R., ... & Razavi, S. M. K. (2020). Early diagnosis of Alzheimer's dementia with the artificial intelligence-based Integrated Cognitive

Assessment: Neuropsychology/computerized neuropsychological assessment. *Alzheimer's & Dementia*, 16, e042863.

(<https://alz-journals.onlinelibrary.wiley.com/doi/full/10.1002/alz.042863>)

- Khazaie, V. R., AkhavanPour, A., & Ebrahimpour, R. (2020, February). Occluded visual object recognition using deep conditional generative adversarial nets and feedforward convolutional neural networks. In *2020 International Conference on Machine Vision and Image Processing (MVIP)* (pp. 1-6). IEEE.  
(<https://ieeexplore.ieee.org/document/9116887>)
- Esmaeili, B., AkhavanPour, A., & Bosaghzadeh, A. (2020, February). An ensemble model for human posture recognition. In *2020 International Conference on Machine Vision and Image Processing (MVIP)* (pp. 1-7). IEEE.  
(<https://ieeexplore.ieee.org/document/9116911>)
- Ghoreyshi, A. M., AkhavanPour, A., & Bossaghzadeh, A. (2020, February). Simultaneous vehicle detection and classification model based on deep YOLO networks. In *2020 International Conference on Machine Vision and Image Processing (MVIP)* (pp. 1-6). IEEE.  
(<https://ieeexplore.ieee.org/document/9116922>)
- Davari, N., Mahdian, M., Akhavanpour, A., & Daneshpour, N. (2020, August). Persian Document Classification Using Deep Learning Methods. In *2020 28th Iranian Conference on Electrical Engineering (ICEE)* (pp. 1-5). IEEE.  
(<https://ieeexplore.ieee.org/abstract/document/9260650>)
- Akhavanpour, A., Karimi, H., Bagheri, N., & Ebrahimpour, R. (2015). Comparing the ability to recognize objects in the background faced with different variations in human and the new visual cortex model. In *9th Iranian Conference on Machine Vision and Image Processing (MVIP)*. [http://www.civilica.com/Paper-ICMVIP09-ICMVIP09\\_086.html](http://www.civilica.com/Paper-ICMVIP09-ICMVIP09_086.html)

## **RESEARCH SUPERVISION AND LEADERSHIP EXPERIENCE**\_\_\_\_\_

2018-Now	Lead AI Projects at <a href="http://shenasa.ai">shenasa.ai</a>
2018-2019	Manage AI interns at <a href="http://shenasa.ai">shenasa.ai</a> (Mostly computer vision)
2018-Now	Supervised 7 B.S. students at Shahid Rajaee University
2018-Now	Leader at <a href="http://iran-celeb.ir">Iran-celeb.ir</a> (Dataset collection)
	– 6 members in whole cycle
	– More than 20 anotators
2010-2011	Leading 4 issues of magazine at Students Scientific Chapter

## **TEACHING MERITS**\_\_\_\_\_

### **PART 1: UNIVERSITY LECTURES:**

\* I managed to satisfy the department and was rated 19.23/20 in the student evaluation in the first experience.

- Summer 2019                    **Visiting Lecturer**, Shahid Rajae University
- Advanced Programming, C++
- Fall 2018                        **Visiting Lecturer**, Shahid Rajae University
- Advanced Deep Learning (Special Issues 2)
- Winter 2017                    **Visiting Lecturer**, Shahid Rajae University
- Python for data science
  - Introduction to Computer Vision & Deep Learning (Special Issues 1)
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- Fall 2016                        **Visiting Lecturer**, Shahid Rajae University
- Computer programming, Python
- Winter 2016                    **Visiting Lecturer**, Shahid Rajae University
- Advanced Programming, C++

## **PART 2: TA:**

- Fall 2017                        **Graduate Teaching Assistant/Assistant Instructor**, Shahid Rajae University
- Deep Learning for Dr. Reza Ebrahimpour
- Fall 2015                        **Teaching Assistant/Assistant Instructor**, Shahid Rajae University
- Databases for Prof. Negin Daneshpour
- Winter 2015                    **Teaching Assistant/Assistant Instructor**, Shahid Rajae University
- Data Structures for Prof. Negin Daneshpour

## **PART 3: Workshops and talks**

- February 18, 2020            **Discriminative Feature Learning and Face Recognition**  
Amirkabir's Summer Summit in Artificial Intelligence
- February 18, 2020            **GANs**  
2020 International Conference on Machine Vision and Image Processing
- February 18, 2020            **Introduction to Tensorflow and Keras**  
2020 International Conference on Machine Vision and Image Processing

- November 21, 2019            **Recurrent Neural Networks using Tensorflow2.0**  
Iran National Innovation Fund
- June 18, 2019                **Machine Learning**  
Department of CE, Shahid Rajae University.
- February 14, 2019           **Two-Day Workshop on Deep Learning (12h workshop)**  
Department of CE, Shahid Rajae University.
- August 30, 2018             **One-shot learning: Face Verification & Recognition**  
partdp
- February 08, 2017           **Implementing a Convolutional Networks using**  
**TensorFlow**  
Big Data Workgroup, Department of CE, Sharif University of  
Technology.

#### **OTHER KEY ACADEMIC MERITS**

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- 2010                    Organizer at Fourth IPM Advanced School on Computing: Artificial Intelligence  
<http://cs.ipm.ac.ir/asoc2020/>

#### **REFERENCES**

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**Prof. Dr. Reza Ebrahimpour**

Head of Department of Computer Engineering, Shahid Rajae Teacher Training University, Tehran, Iran.

Email: [rebrahimpour@sru.ac.ir](mailto:rebrahimpour@sru.ac.ir)

And, School of Cognitive Sciences (SCS), Institute for Research in Fundamental Sciences (IPM), Niavaran, Tehran, Iran.

Email: [ebrahimpour@ipm.ir](mailto:ebrahimpour@ipm.ir)

**Dr. Mohammad Sabokrou**

Researcher at the Institute for Research in Fundamental Sciences (IPM),

Email: [sabokro@gmail.com](mailto:sabokro@gmail.com)

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Printed and signed recommendations:

<http://akhavanpour.ir/AcademicRecommendation.pdf>