

# Erfan Noury Qarajalar

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## Research Interests

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**Deep Learning** Representation Learning, Memory-Augmented Neural Networks, Reinforcement Learning  
**Computer Vision** Object Detection/Recognition, Human Pose Estimation

## Education

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### B.Sc. in Software Engineering

Tehran, Iran

SHARIF UNIVERSITY OF TECHNOLOGY

Sep. 2011 - Feb. 2017

**Thesis:** "Deep Neural Networks for Joint Image and Text Embedding" (Final Grade: 19.3/20.0)

Advisor: Dr. Mahdieh Soleymani Baghshah

**GPA:** 15.42/20

Relevant Coursework:

- Fundamentals of 3D Computer Vision (20/20)
- Engineering Probability and Statistics (18.5/20)
- Modern Information Retrieval (17.6/20)
- Signals and Systems (17.4/20)
- Digital Image Processing (Graduate course, 17.1/20)
- Statistical Pattern Recognition (Graduate course, 15.5/20)
- Machine Learning (Graduate course, audited)

### Diploma in Mathematics and Physics

Urmia, Iran

SHAHID BEHESHTI HIGH SCHOOL

2007 - 2011

Affiliated with the National Organization for Development of Exceptional Talents (NODET)

## Publications

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### Deep Relative Attributes

2016

Yaser Souri, Erfan Noury, Ehsan Adeli

Asian Conference on Computer Vision (ACCV), Taipei, Taiwan.

### BodyField: Structured Mean Field with Human Body Skeleton Models and Shifted Gaussian Edge Potentials

2016

Sara Ershadi-Nasab, Erfan Noury, Hassan Hafez-Kolahi, Shohreh Kasaei, Esmail Sanaei

To be submitted to a journal.

### 3D Multiple Human Pose Estimation from Multi-view Images

2016

Sara Ershadi-Nasab, Erfan Noury, Shohreh Kasaei, Esmail Sanaei

To be submitted to a journal.

## Research Experience

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### Undergraduate Research Assistant, Image Processing Lab.

Tehran, Iran

UNDER THE SUPERVISION OF PROF. SHOHREH KASAEI

June 2013 - Present

Department of Computer Engineering, Sharif University of Technology

- **Current project:** Convolutional Neural Networks for Human Pose Estimation
- Human Pose Estimation
- Supervised Edge Detection
- Integral Images and their applications

## Undergraduate Research Assistant, Machine Learning Lab.

Tehran, Iran

UNDER THE SUPERVISION OF DR. MAHDIEH SOLEYMANI BAGHSHAH

December 2014 - Present

Computer Engineering Department, Sharif University of Technology

- **Current project:** Augmented RNNs for Visual Question Answering
- Deep Neural Networks for Joint Image and Text Embedding, with applications in image/caption retrieval, image caption generation, and visual question answering

## Professional Experience

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### NLP Research Engineer at AYLIEN Ltd.

October 2016 - Present

Question Answering using Memory-augmented Neural Networks

### Intern at Bayan Co.

Summer 2015

Applying machine learning models (including LSTMs) to spam detection

## Honors & Awards

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2015	<b>Ranked 23<sup>rd</sup> internationally, 3<sup>rd</sup> nationally</b> in the 9 <sup>th</sup> IEEEXtreme Programming Contest, among more than 2400 teams	
2011	<b>Ranked 295<sup>th</sup></b> among more than 300,000 students in the nationwide university entrance exam for Bachelor's degree	Iran
2010	<b>Qualified</b> for the second round of the National Olympiad in Physics for high school students	Iran
2004 & 2007	<b>Admitted</b> to middle school and high school in the National Organization for Development of Exceptional Talents ( <b>NODET</b> ) (acceptance rate < 0.3%)	Iran

## Teaching Experience

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Spring 2016	<b>Teacher Assistant</b> for <b>Fundamentals of 3D Computer Vision</b> (CE344) Prof. Kasaei	Sharif University of Technology
Fall 2015	<b>Teacher Assistant</b> for <b>Engineering Probability and Statistics</b> (CE181) Prof. Rabiee	Sharif University of Technology
Fall 2015	<b>Teacher Assistant</b> for <b>Modern Information Retrieval</b> (CE324) Dr. Soleymani	Sharif University of Technology
Fall 2014	<b>Teacher Assistant</b> for <b>Engineering Probability and Statistics</b> (CE181) Prof. Rabiee	Sharif University of Technology
Spring 2014	<b>Teacher Assistant</b> for <b>Signals and Systems</b> (CE242) Prof. Sameti	Sharif University of Technology
Fall 2013	<b>Teacher Assistant</b> for <b>Advanced Programming in C++</b> (CE244) Dr. Jafarnejad	Sharif University of Technology
Fall 2013	<b>Head Teacher Assistant</b> for <b>Introduction to Programming</b> (CE153) Dr. Taherkhani	Sharif University of Technology
Spring 2013	<b>Head Teacher Assistant</b> for <b>Introduction to Programming</b> (CE153) Dr. Taherkhani	Sharif University of Technology
Fall 2012	<b>Teacher Assistant</b> for <b>Introduction to Programming</b> (CE153) Dr. Taherkhani	Sharif University of Technology

## Skills

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LANGUAGES	<b>Turkish, Persian</b>	Native
	<b>English</b>	Proficient <ul style="list-style-type: none"> <li>• TOEFL score: 105 (R: 28, L: 28, S: 22, W: 27)</li> <li>• GRE score: 154 (Verbal), 167 (Quant.), 4 (AWA)</li> </ul>
PROGRAMMING LANGUAGES	<b>Proficient</b>	Python, C, C++, C#, Java, MATLAB
	<b>Familiar</b>	TeX, Mathematica, F#, Lua, R
PROGRAMMING LIBRARIES	<b>Proficient</b>	Theano, Lasagne, OpenCV, Keras, sklearn-theano, TensorFlow, TikZ, Eigen
	<b>Familiar</b>	FFTW, VTK, Matplotlib, Math.Net, pyLucene, ElasticSearch

## References

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### Prof. Shohreh Kasaei

Full Professor  
Department of Computer Engineering, Sharif University of Technology, Tehran, Iran.  
Email: skasaei@sharif.edu

### Dr. Mahdieh Soleymani Baghshah

Assistant Professor  
Department of Computer Engineering, Sharif University of Technology, Tehran, Iran.  
Email: soleymani@sharif.edu

### Dr. Ehsan Adeli-Mosabbeb

Post-doctoral Research Associate  
Biomedical Research Imaging Center, University of North Carolina at Chapel Hill, NC, USA.  
Email: eadeli@unc.edu