

# Saeed VARASTEH YAZDI

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## CONTACT INFORMATION

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## EDUCATIONS

### January 2019 – present

**Postdoctoral Researcher** Laboratoire d'Informatique de Grenoble (LIG), Université Grenoble Alpes  
I am currently working on deep learning models for time series analysis, classification and clustering.

### January 2016 – December 2018

**Ph.D. in Computer Science** Laboratoire d'Informatique de Grenoble (LIG), Université Grenoble Alpes  
Research fellow for a PhD degree as a member of AMA team in the LIG laboratory. My PhD thesis is supervised by Prof. Ahlame Douzal and it is mainly about classification and clustering of temporal data. Thesis title: "*Time warp invariant sparse coding and dictionary learning for time series classification and clustering*".

### January 2009 – February 2012

**M.Sc. in Artificial Intelligence** Amirkabir University of Technology, Tehran, Iran  
I completed a M.Sc. at the Department of Informatics, Amirkabir (Polytechnic) University, Tehran. In my thesis I focused on NLP tasks especially, Text summarizing. My supervisor was Prof. Mohammad Mehdi Homayounpour. Full title: "*Extractive Persian Multi-Document Summarization*".

### September 2004 – September 2008

**B.Sc. in Computer Software** Sadjad University, Mashhad, Iran  
I completed a B.Sc. in computer software with courses in computer networks and programming. My thesis was a network compatible smart AI board game.

## WORK EXPERIENCES

### September 2007 – July 2015

**Web and software development** PooyanHost Corporation, Mashhad, Iran  
Working as a member of the PooyanHost team to create advanced web portals and application such as CMS, CRM, etc.

## Internships

### Summer 2016

**ASDM Summer School** Univ. Politécnica de Madrid, Madrid, Spain  
One week summer school in the Advance Statistics and Data Mining.

### Summer 2012

**Bachelor Internship** Sadjad University, Mashhad, Iran  
Create windows applications and network maintenance.

### Summer 2011

**Computer laboratory assistant** Allameh High school, Mashhad, Iran  
Network maintenance.

## TEACHING EXPERIENCES

### January 2017 – April 2019

**Undergraduate teaching** IUT1, IUT2, Université Grenoble Alpes, Grenoble, France.  
Undergraduate teaching, Object Oriented programming (ASP.Net, C-sharp).

### September 2012 – September 2015

**Undergraduate teaching** Sadjad University, IAUM University, Mashhad, Iran.  
Undergraduate teaching, Object Oriented programming(C++), C-sharp Programming, Machine Learning, Internet Engineering, Web Developing, Relational Database Management Systems (RDBS), Artificial Intelligence.

### September 2005 – September 2008

**Teaching assistant and examiner** Sadjad University, Mashhad, Iran.  
Worked as a teaching assistant and examiner at C++, database management and data structure courses.

Workshop and talks **March 2012**  
**Nvivo: Qualitative analysis on the data** Ferdowsi University, Mashhad, Iran.  
One-day workshop on how to use Nvivo to extract and analysis our data at Faculty of Letters and Humanities, Ferdowsi University, Mashhad.

**September 2012 – January 2013**

**Lecturer** Webitschool, Mashhad, Iran.  
I created and held a ten day course in web programming with ASP.Net at Webitschool, Mashhad. Several groups of students were participated in my classes during four months.

HONORS  
Rank 1 Student during Bachelor studies among 57 students in Sadjad University.  
Rank 1 Student during Master 1 and 2 studies among 23 students in Amirkabir University.  
Standing between top professors during three years of teaching in Sadjad University.  
Accepted by VIBOT(Vision and Robotics) Erasmus Mundus joint master program.  
Accepted by Advanced Statistics and Data Mining Summer School in Madrid.  
Full funded PhD Candidate by Joseph Fourier University (UJF).

SKILLS

Programming languages C++, C-sharp, Pascal, Delphi, SQL  
Web application development HTML5, CSS3, JavaScript, ASP.Net, Web Api, MVC, LINQ and Entity Framework, Angular JS (new!)  
Academic programming MATLAB, Latex, R, Python, Nvivo  
Certificates SQL Server Database Developer, Oracle Database Administrator

PUBLICATIONS Conference papers and journals are presented here.

2018 Saeed Varasteh Yazdi, Ahlame Douzal-Chouakria, Patrick Gallinari and Manuel Moussallam. Time warp invariant dictionary learning for time series clustering: application to music data stream analysis. *Joint European Conference on Machine Learning and Knowledge Discovery in Databases (ECML/PKDD 2018)*.. [https://doi.org/10.1007/978-3-030-10925-7\\_22](https://doi.org/10.1007/978-3-030-10925-7_22)

2018 Saeed Varasteh Yazdi and Ahlame Douzal-Chouakria. Time warp invariant ksvd: Sparse coding and dictionary learning for time series under time warp. *Pattern Recognition Letters 112, 1–8 (2018)*. <https://doi.org/10.1016/j.patrec.2018.05.017>

2018 Jidong Yuan, Ahlame Douzal-Chouakria, Saeed Varasteh Yazdi and Zhihai Wang. A large margin time series nearest neighbour classification under locally weighted time warps. *Knowledge and Information Systems, (2018)*. <https://doi.org/10.1007/s10115-018-1184-z>

2017 Cao-Tri Do, Ahlame Douzal-Chouakria, Sylvain Marié, Michèle Rombaut and Saeed Varasteh Yazdi. Multi-modal and multi-scale temporal metric learning for a robust time series nearest neighbors classification. *Information Sciences 418, 272-285 (2017)*. <https://doi.org/10.1016/j.ins.2017.08.020>

2011 Poormasoomi, A., Kahani, M., Varasteh Yazdi, S. V., and Kamyar, H. Context-based persian multi-document summarization (global view). *In IEEE International Conference on Asian Language Processing (IALP) pp. 145-149, (2011)*.

OTHER RESEARCHES

2008 **Extractive Persian Multi Document Summarization**

Multi document summarization is an automatic extraction of information from multiple documents written about the same topic. This research proposes a new method using LSA for extracting the global context of a topic and removes sentence redundancy using SRL and Word Net semantic similarity for Persian language.

**Keywords:** Multi-document summarization, LSA, SVD, Semantic Similarity, Semantic Role labeling

2011	<p><b>Evolutionary Algorithms for Multi Objective Optimization</b></p> <p>This project was focused on evolutionary algorithm for function minimization. We used a benchmark consists of 6 different functions, functions with lots of local minimum points.</p> <p><b>Keywords:</b> Genetic Algorithm, Function Optimization</p>
2010	<p><b>Function Approximation Using Fuzzy Neural Networks</b></p> <p>The main goal of this research was to implement and test different structures of fuzzy neural networks for function approximations and compare them with MLP and ANFIS neural network.</p> <p><b>Keywords:</b> Neural Network, SOM, Fuzzy Neural Network. MLP, Clustering</p>
2010	<p><b>A Survey on Component-based Face Detection</b></p> <p>Facial features are useful for systems that require face detection, including personal identification, surveillance, human-machine interface. In the following research we give a brief overview of face detection techniques in gray-scale images.</p> <p><b>Keywords:</b> Face recognition, Component-based approach, SVM</p>
LANGUAGE PROFICIENCY	Farsi (Persian): Mother tongue, English: B2/C1, French: B1/B2.
RESEARCH INTERESTS	Artificial intelligence, Machine learning, Pattern recognition
REFERENCES	Available on request.