

Saeed VARASTEH YAZDI

CONTACT INFORMATION

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EDUCATIONS

January 2019 – Present

Postdoctoral Researcher

Laboratoire d'Informatique de Grenoble (LIG)

I am currently working on deep learning models for time series forecasting, classification and causal reasoning. The research is supported by the French National Research Agency through the ANR-LOCUST and ANR-API projects, under the supervision of Ahlame Douzal (Associate Prof. Univ Grenoble Alpes) [Ahlame.Douzal@univ-grenoble-alpes.fr]

January 2016 – December 2018

Ph.D. in Machine Learning

Université Grenoble Alpes

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"*

The Defense jury members on 15 November 2018:

Prof. Philippe PREUX, Lille University, Reporter

Prof. Mohamed NADIF, Paris Descartes University, Reporter

Prof. Stephane CANU, Normandie University, Examiner

Prof. Patrick GALLINARI, Sorbonne University, Examiner

Mr. Julien MAIRAL, (Charge de Recherche) Inria Grenoble, Examiner

Associate Professor (HDR) Ahlame DOUZAL, Grenoble Alpes University, Thesis director.

January 2009 – February 2012

M.Sc. in Artificial Intelligence

Amirkabir (Polytechnic) 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.

Thesis title: *"Extractive Persian Multi-Document Summarization"*.

Main Courses: Computer vision, Machine learning, Image processing, Natural language processing, Signal processing and Speech processing

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.

TEACHING EXPERIENCES

January 2017 – present

Undergraduate teaching

IUT1, IUT2, Grenoble, France.

Teaching object oriented programming (ASP.Net, C-sharp) course.

Type: CM, TD and TP.

Total Hours: \geq 200 Hours.

January 2019 – present

Teaching assistant

Universite Grenoble Alpes, Grenoble, France.

Teaching assistant for Prof. Douzal in machine learning and data science courses (graduate students).

Type: TD and TP.

September 2012 – September 2015

Undergraduate teaching

Sadjad University, IAUM University, Mashhad, Iran.

Teaching object oriented programming (c++), c-sharp programming, machine learning, internet engineering, web development, RDBS and artificial intelligence courses.

Type: CM.

Total Hours: \sim 3 full years.

	September 2005 – September 2008 Teaching assistant and examiner Teaching assistant and examiner in c++, database management and data structure courses. Type: TD and TP.	Sadjad University, Mashhad, Iran.
Thesis Supervisions	2018 – 2020 Co-supervising PhD Thesis I am co-supervising PhD thesis of <i>Thi Phuong Thao Tran</i> , titled "time series kernel analytics by pre-image estimation" with Prof. Ahlame Douzal and Prof. Paul Honeine. 2019 Co-supervising Master Thesis I co-supervised master thesis of <i>Vera Sosnovik</i> , titled "Representation Learning for Time Series Motif Extraction" with Prof. Ahlame Douzal.	Universite Grenoble Alpes
Workshop and talks	March 2012 Nvivo: Qualitative analysis on the data 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 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.	Ferdowsi University, Mashhad, Iran. Webitschool, Mashhad, Iran.
WORK EXPERIENCES	January 2019 – present Research Scientist Specialist in machine learning and deep learning. September 2007 – July 2015 Freelance Developer Creating advanced web portals and application such as CMS, CRM, etc.	Universite Grenoble Alpes, LIG, France PooyanHost Corporation, Mashhad, Iran
Internships	Summer 2016 ASDM Summer School One week summer school in the Advance Statistics and Data Mining. Summer 2012 Bachelor Internship Application development and network maintenance.	Univ. Polit�cnica de Madrid, Madrid, Spain Sadjad University, Mashhad, Iran
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 of Technology. 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 (Grenoble Alpes) University.	
SKILLS	Academic programming Python, Deep Learning Tools (PyTorch, TensorFlow), MATLAB, Latex, R, Nvivo 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 Certificates SQL Server Database Developer, Oracle Database Administrator	
ONGOING RESEARCH	2021-2022 Causal reasoning, uplift modeling and deep learning.	

2020-2021	Prostate Cancer Treatment (Foch Hospital, Paris).
PUBLICATIONS	Conference papers and journals;
2020	Thi Phuong Thao Tran, Ahlame Douzal-Chouakria, Saeed Varasteh Yazdi , Paul Honeine and Patrick Gallinari. Interpretable time series kernel analytics by pre-image estimation. <i>Journal of Artificial Intelligence, Volume 286</i> (2020). https://doi.org/10.1016/j.artint.2020.103342
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. <i>Joint European Conference on Machine Learning and Knowledge Discovery in Databases (ECML/PKDD 2018)</i> .. 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. <i>Pattern Recognition Letters 112</i> , 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. <i>Knowledge and Information Systems</i> , (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. <i>Information Sciences 418</i> , 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). <i>In IEEE International Conference on Asian Language Processing (IALP) pp. 145-149</i> , (2011).
OTHER RESEARCHES	
2008	<p>Extractive Persian Multi Document Summarization</p> <p>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.</p> <p>Keywords: Multi-document summarization, LSA, SVD, Semantic Similarity, Semantic Role labeling</p>
2011	<p>Evolutionary Algorithms for Multi Objective Optimization</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>Keywords: Genetic Algorithm, Function Optimization</p>
2010	<p>Function Approximation Using Fuzzy Neural Networks</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>Keywords: Neural Network, SOM, Fuzzy Neural Network. MLP, Clustering</p>
2010	<p>A Survey on Component-based Face Detection</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>Keywords: Face recognition, Component-based approach, SVM</p>
LANGUAGE PROFICIENCY	Farsi (Persian): Mother tongue, English: C1, French: B2.
RESEARCH INTERESTS	Broadly Artificial intelligence, Machine learning and Deep Learning