

## PERSONAL INFORMATION

## Majid Latifi (Ph.D.)



## NLP and Data Scientist

ORCID 0000-0002-2671-0516

Scopus ID: 51461491600

✉ [mlatifi@cs.upc.edu](mailto:mlatifi@cs.upc.edu)

✉ [latifim@scss.tcd.ie](mailto:latifim@scss.tcd.ie)

🌐 <http://www.cs.upc.edu/~mlatifi/>

🌐 <https://www.linkedin.com/in/majid-latifi>

🌐 <https://github.com/mlatifi>

🌐 <https://www.kaggle.com/majidlatifi>

## EDUCATION

📅 Oct 2012 – May 2018

## Ph.D. in Artificial Intelligence (Excellent international doctor awarded)

📍 Universitat Politècnica de Catalunya (UPC), Barcelona, Spain

■ **Thesis Title:** Using Natural Language Processing for Question Answering in Closed and Open Domains

■ **URI:** <https://upcommons.upc.edu/handle/2117/118781?show=full>

■ **Advisors:** 1- Dr. Horacio Rodriguez 2- Dr. Miquel Sànchez – Marrè

📅 Mar 2017 – Aug 2017

## Visiting Researcher in NLP &amp; Machine Learning

📍 ADAPT Centre, Dublin City University (DCU), Dublin, Ireland

■ Developing Question Answering System in open domain (Linked Open Data);

■ **Supervisor:** Prof. Qun Liu

📅 2007 - 2011

## Master of Science (M.Sc.) in Software Engineering

📍 Azad University, Arak Branch, Iran

■ **Thesis Title:** An Efficient Approach Based On Ontology to Optimize the Organizational Knowledge Base Management for Advanced Queries Service

📅 2000 - 2002

## Bachelor of Science (B.Sc.) in Software Engineering

📍 Azad University, Tehran South Branch, Iran

■ **Final Project Title:** Designing and implementing dynamic web pages using ASP

📅 1997 - 1999

## Associate's Degree (A.S.) in Applied Science Computer Software

📍 State University of Zanjan, Iran

■ **Final Project Title:** Designing and programming applied software in JAVA

## LANGUAGES SKILLS

Mother Tongue & Native

Turkish ; Persian

Other Language(s)

English

Spanish

Arabic

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
Spanish	C1	C2	B2	B2	B2
Arabic	B2	C2	B2	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

## PUBLICATIONS

Journal Papers:

- Title:** Facing Closed and Open Domain QA over Knowledge Bases

**Authors:** Latifi, M.; Rodriguez, H.; Sànchez-Marrè, M. (*Peer-reviewed by editorial office and under preparation to resubmit, manuscript ID: NLE-ARTC-REG-19-0060*)

**Journal edition:** Natural Language Engineering (NLE), Submitted May 2019
- Title:** ScoQAS: A Semantic-based Closed and Open Domain Question Answering System

**Authors:** Latifi, M.; Rodríguez, H.; Sànchez-Marrè, M.

**Publisher:** Sociedad Española para el Procesamiento del Lenguaje Natural

**Journal edition:** Procesamiento del Lenguaje Natural, September 2017, No. 59, pp. 73-80

**ISSN:** 1135-5948

**URI:** <http://hdl.handle.net/10045/69093>

**URL to publication:** <http://journal.sepln.org/sepln/ojs/ojs/index.php/pln/article/view/5495>

- Conference Papers:
1. **Title:** Leveraging Knowledge Graphs of Movies and Their Content for Web-Scale Analysis  
**Authors:** Orlandi, F.; Debattista, J.; A. Hassan, I.; Latifi, M.; et. al.  
**Conference edition:** 14th International Conference on Signal Image Technology and Internet-Based Systems (SITIS 2018), November 26-29, 2018  
**Type of presentation:** Oral presentation  
**Published:** IEEE Computer Society  
**ISBN:** 978-1-5386-9385-8  
**Town/city:** Las Palmas de Gran Canaria **Country:** Spain  
**URL to publication:** <https://ieeexplore.ieee.org/document/8706177>
  2. **Title:** The Use of NLP Interchange Format for Question Answering in Organizations  
**Authors:** Latifi, M.; Sanchez-Marre, M.  
**Conference edition:** 16<sup>th</sup> International Conference of the Catalan Association of Artificial Intelligence (CCIA 2013), October 23-25, 2013  
**Type of presentation:** Oral presentation  
**Published:** Frontiers in artificial intelligence and applications, vol. 256, Artificial Intelligence Research and Development, pp. 235-244, 2013  
**ISBN:** 978-1-61499-319-3 (*print*) | 978-1-61499-320-9 (*online*)  
**Town/city:** University of Vic, Vic **Country:** Spain  
**URL to publication:** <http://ebooks.iospress.nl/publication/35253>
  3. **Title:** Proposal for Using NLP Interchange Format for Question Answering in Organizations  
**Authors:** Latifi, M.  
**Conference edition:** 7th International Web Rule Symposium: Research Based and Industry Focused, 3rd RuleML Doctoral Consortium, 11-13th July, 2013  
**Type of presentation:** Oral presentation  
**Published:** CEUR Workshop Proceedings, 2014  
**ISBN:** 1613-0073  
**URL to publication:** <http://hdl.handle.net/2117/23491>  
**Town/city:** University of Washington, Seattle **Country:** USA
  4. **Title:** An Efficient Approach Based On Ontology to Optimize the Organizational Knowledge Base Management for Advanced Queries Service  
**Authors:** Latifi, M.; Khotanlou, H.; Latifi, H.  
**Conference edition:** 3<sup>rd</sup> IEEE International Conference on Communication Software and Networks (ICCSN 2011), May 27-29, 2011  
**Type of presentation:** Oral presentation  
**Published:** IEEE 3<sup>rd</sup> International Conference on Communication Software and Networks, 2011  
**ISBN:** 978-1-61284-486-2  
**URL to publication:** <http://ieeexplore.ieee.org/document/6013590/>  
**Town/city:** Xi'an **Country:** China
  5. **Title:** Providing an Efficient Ontology-based Method to Improve the Management of Knowledge Bases in Order to Serve Advanced Queries  
**Authors:** Latifi, M.; Khotanlou, H.; Shiri Ahmabadi, M.E.  
**Conference edition:** Information Technology, Solutions and Strategies, 22<sup>nd</sup> May 2010  
**Type of presentation:** Oral presentation  
**Published:** CIVILICA (Specialized publisher of Iranian conferences)  
**CIVILICA Object Identifier (COI):** GONBADIT01\_024  
**Town/city:** Gonbad Kavous, Golestan **Country:** Iran  
**URL to publication:** [https://www.civilica.com/paper-gonbadit01-gonbadit01\\_024.html](https://www.civilica.com/paper-gonbadit01-gonbadit01_024.html)
  6. **Title:** Composed Neural Networks with Colonial Competitive Algorithm for the Classification of the Data in Tehran Stock Market  
**Authors:** Latifi, M.; Latifi, H.  
**Conference edition:** 15th National CSI Computer Conference, February 20-22, 2010  
**Type of presentation:** Poster  
**Published:** The 15th Annual CSI Conference (CSICC'10), 2010  
**Town/city:** Tehran **Country:** Iran  
**URL to publication:** <http://csi.org.ir/en/paper/view/id/890>
- Book Chapter:
1. **Title:** Handbook of Persian Computational Linguistics and Natural Language Processing (*Under preparation*)  
**Chapter Title:** Development of Semantic-based Question Answering System in Persian Language  
**Publisher:** De Gruyter Mouton, 15 Jul 2022, <https://www.degruyter.com/view/product/508479>  
**Country:** Germany  
**ISBN:** 978-3-11-061654-5

- Invention:**
- Title:** A method and apparatus to recommend multimedia content based on the mood of the multimedia content

**Authors:** Members of ADAPT Centre and Huawei Co. involved in semantic uplifting and video summarization project

**Disclosure Record ID:** 86146321

**Types:** Scientific-technological (Submitted to Intellectual Property Rights Dept (IPR Dept) by Huawei Technologies Co.)

**Date:** 2019
- National Magazine:**
- Title:** The Potential and Application of Chatbots in Social Services

**Authors:** Latifi, M.

**Edition:** Bavar Scientific Bulletin, No. 4

**Published:** January, 2018 **Country:** Iran
  - Title:** DBPedia and Linked Data in Farsi

**Authors:** Latifi, M.

**Type of document:** Scientific Interview

**Magazine edition:** Cyberpajoohi, No. 4

**Published:** May, 2018


**Town/city:** Tehran **Country:** Iran

**URL to publication:** <http://cyberpajoohi.ir>

## RESEARCH & WORK EXPERIENCE

 Apr 2019 – Jun 2020

### Research Associate

 Intelligent Data Science and Artificial Intelligence (IDEAI-UPC) Research Centre, Universitat Politècnica de Catalunya (UPC), Barcelona, Spain

■ **Research Group:** KEMLG Group supervised by Prof. Miquel Sànchez – Marrè

1. Collaboration in the project Spanish thematic network of machine learning for problems and singular applications (MAPAS) and carrying out the research project
2. Executing the MAPAS network and publishing papers in international journals

 Mar 2018 – Mar 2019

### Research Assistant

 ADAPT Centre, Trinity College Dublin (TCD) University, Dublin, Ireland

■ **Research Group:** Spokes team of Prof. Declan O'Sullivan and Prof. Owen Conlan

1. Exploiting Natural Language Processing (NLP), speech, and Semantic Web techniques for exploring video content in Semantic Uplifting and Video Summarization joint project with Huawei Co.
2. Developed a knowledge model for representing the key features of video

 Oct 2012 – Mar 2018

### Research Assistant

 Computer Science Department, Universitat Politecnica de Catalunya (UPC), Barcelona, Spain

■ **Research Group:** Dr. Horacio Rodriguez 2- Dr. Miquel Sànchez – Marrè

1. Designed, developed, and evaluated an end to end Question Answering System (ScoQAS) over knowledge base by Python
2. Exploited AI, NLP techniques, and Semantic Web approaches for implementing the ScoQAS

 May 2003 – Sep 2012

### Software and Network Expert


 Research and Technology Department, Azad University of Hamedan, Hamedan, Iran

■ **Division:** Data & Network Service Centre

1. Developer of software, network, and internet services
2. System analyst of the Payroll, Accounting, Staff Salary Automation, and Stock system, VB and SQL
3. Member of support team for the Enrollment and Financial systems
4. Member of the technical support team of the Mail, Web, DNS, Accounting, and FTP servers
5. Designer and manager of the LAN and Fiber Optic networks project of more than 10 departments
6. Technical approval on the purchase of over 700 computers and accessories for laboratories and offices

TEACHING  
EXPERIENCE
 2003 - 2012

## University Lecturer

 Azad University of Hamedan, Hamedan, Iran

Course:	Computer Workshop	Academic year:	2003	Sector:	Engineering Dep.
		Semester:	1 <sup>st</sup>		
Course:	Application of Computer for Education	Academic year:	2005, 2006	Sector:	Faculty of Humanities
		Semester:	1 <sup>st</sup> , 2 <sup>nd</sup>		
Course:	Computer programming	Academic year:	2006	Sector:	Engineering Dep.
		Semester:	2 <sup>nd</sup>		
Course:	English Language Typewriting	Academic year:	2006	Sector:	Faculty of Humanities
		Semester:	2 <sup>nd</sup>		
Course:	Fundamentals of Visual Basic Programming	Academic year:	2007	Sector:	Engineering Dep.
		Semester:	1 <sup>st</sup> , 2 <sup>nd</sup>		
Course:	Advanced Programming 1	Academic year:	2007	Sector:	Engineering Dep.
		Semester:	2 <sup>nd</sup>		
Course:	Fundamentals of Internet	Academic year:	2008	Sector:	Engineering Dep.
		Semester:	1 <sup>st</sup>		
Course:	Project	Academic year:	2008, 2009	Sector:	Engineering Dep.
		Semester:	1 <sup>st</sup> , 2 <sup>nd</sup>		
Course:	Fundamentals of Software Engineering	Academic year:	2008, 2009, 2010, 2011	Sector:	Engineering Dep.
		Semester:	1 <sup>st</sup> , 2 <sup>nd</sup>		
Course:	Local Computer Network Workshop	Academic year:	2009, 2010, 2011, 2012	Sector:	Engineering Dep.
		Semester:	1 <sup>st</sup> , 2 <sup>nd</sup>		
Course:	Systems Design and Analysis	Academic year:	2009	Sector:	Engineering Dep.
		Semester:	1 <sup>st</sup>		
Course:	Fundamentals of Computer	Academic year:	2010	Sector:	Engineering Dep.
		Semester:	1 <sup>st</sup>		

 2007 - 2008


## University Lecturer

 Hamedan's Scientific – Applied University, Hamedan, Iran

Course:	Local Network Workshop	Academic year:	2007	Sector:	Education, Culture and Research
		Semester:	2 <sup>nd</sup>		
Course:	Documentation & Method of Technical Topics Presentation	Academic year:	2008	Sector:	Education, Culture and Research Centre
		Semester:	2 <sup>nd</sup>		
Course:	Systems Analysis	Academic year:	2008	Sector:	Education, Culture and Research Centre
		Semester:	1 <sup>st</sup>		

 2006

## University Lecturer

 Hamedan's SAMA Higher Education Center, Hamedan, Iran

Course:	Local Computer Network	Academic year:	2006	Sector:	SAMA Education and Cultural Center
		Semester:	2 <sup>nd</sup>		

## AWARDS

## Honours and Awards

- Grant for a proposed project “Assistant Attorney Intelligent System (AAIS)” at Exhibition of Research, Technology and Technology Market, Tehran, December 14<sup>th</sup> – 18<sup>th</sup>, 2016.
- Award with grant for Bavar competition of the Association of Iranian Students in Europe at ICT section, ELECOMP 2015, Tehran, December 14<sup>th</sup> – 17<sup>th</sup>, 2015.
- Honoured with an award for selected best researcher in Azad University of Hamedan Branch, Iran, 2011.
- Grant for attending 3rd IEEE International Conference on Communication Software and Networks (ICCSN 2011), Xi'an, China, 27<sup>th</sup> – 29<sup>th</sup> of May, 2011.
- Honoured with an award for selected best employee in Azad University of Hamedan Branch, Iran, 2006.
- Honoured for first rank graduate in diploma of Mathematics and Physics in Shamaee's high schools, Famenin, Hamedan, 97.

## HONORARY EXECUTIVE ROLES

### Scientific Reviewer of Journal

Journal Name: Machine Translation, Springer Journal, 2020

- <https://www.springer.com/journal/10590>

Journal Name: Journal of Grid Computing, Springer Nature, 2019

- <https://www.springer.com/journal/10723>

Journal Name: Iranian Journal of Science and Technology, Transactions of Electrical Engineering, 2020

- <https://www.editorialmanager.com/iste/default.aspx>

Journal Name: IGI Global - International Journal of Synthetic Emotions (IJSE), 2018

- Guest Editor in Special Issue On: [Advancements in Electronic, Computer and Mechatronic Engineering](#)

### Conference Organization

1. **Reviewer:** BioNLP 2020 Workshop on Biomedical Natural Language Processing ([ACL2020](#))  
**More info:** Seattle, Washington, USA, July 5-10, 2020
2. **Reviewer:** The 18th ACL Workshop on Biomedical Natural Language Processing ([BioNLP 2019](#))  
**More info:** Florence, Italy, Thursday, August 1, 2019
3. **PC Member:** 26th Irish Conference on Artificial Intelligence and Cognitive Science ([AICS2018](#))  
**More info:** Trinity College Dublin, Dublin, Ireland, December 6-7<sup>th</sup>, 2018
4. **Reviewer:** Sixth International Conference on eDemocracy & eGovernment ([ICEDEG 2019](#))  
**More info:** Quito, Ecuador, 24 - 26 April, 2019
5. **Program Committee:** Workshop on Technologies for MT of Low Resource Languages ([AMTA2018](#))  
**More info:** Boston, Massachusetts, March 21, 2018
6. **Program Committee:** Workshop on Cross-lingual Word Segmentation and Morpheme Segmentation in the First Workshop on Multi-Language Processing in a Globalising World ([MLP2017](#))  
**More info:** Organized by ADAPT Centre, Dublin City University (DCU), Ireland, September 4–5, 2017

## MEMBERSHIP & COMPUTER SKILLS

### Membership

1. Catalan Association for Artificial Intelligence – ACIA, Barcelona, Spain, 2013 – 2015
2. Irish Computer Society – ICS, Ireland, Feb 2019
3. Computer Guild Association, Hamedan, Iran, 2006-2013
4. EU Blue Card Network, verified education and professional experience, ID: 131000, June 3, 2019

### Computer and Network Skills

- Experience within programming languages: Python, C/C++, Java, Octave, PHP, ASP.NET, Visual Basic
- NLP tools: NLTK, WordNet, Stanford CoreNLP
- Machine Learning and Deep Learning tools: PyTorch, TensorFlow, Scikit Learn, Numpy, Panda
- Data Science tools: Jupyter Notebook, Anaconda, Pycharm IDE, Kaggle
- Data mining and knowledge-based applications: Weka, Protege
- Good command of DBMS: SQL, MySQL, SQL Server
- Semantic Web tools: SPARQL, Apache Jena Fuseki, RDF(s) libraries
- Reporting & visualization: Graphviz, Dreamweaver, Frontpage, Crystal Report
- Version control system: Git and GitHub
- Document preparation and referencing: Overleaf, Latex, Microsoft Office™ tools, Mendeley
- Good command of Linux Ubuntu, Windows Advanced Server, Microsoft Windows XP
- Experience within configuring HP server, Cisco Switch/Router IOS, VPN network, DNS services

## CERTIFICATES

### Certificates and Training Courses

1. Neural Networks and Deep Learning Certificate, issued by Coursera, taught by Andrew Ng, Credential ID: [67HBZ3XYUWLF](#), 1st July, 2020.
2. Machine Learning Certificate, issued by Coursera and authorized by Stanford University, taught by Dr. Andrew Ng, Credential ID: [GTZ2WWEAB2F8](#), 22th May, 2020.

3. A training seminar in Linked Data and Uplift – Generating RDF datasets from non-RDF data with R2RML, Trinity College Dublin University, 4<sup>th</sup> and 10<sup>th</sup> of May, 2017.
4. A training-specialized 27<sup>th</sup> European Summer School and Workshop in Logic, Language and Information (ESSLLI 2015), Universitat Pompeu Fabra, Barcelona, Spain, 3<sup>rd</sup>-14<sup>th</sup> of August, 2015.
5. A cross-training course on “Responsible Conduct in Research and Innovation”, UPC University, Barcelona, Spain, from February to May 2015.
6. A training-specialized workshop on “Tutorial on Semantic Data Management Techniques for Linked Data”, UPC University, Barcelona, Spain, March 2015.
7. A cross-training course on “Academic Writing”, UPC University, Barcelona, Spain, June 2015.
8. ALBCOM seminar on “Graph-based algorithms for discovering associations from semantically annotated biomedical data”, UPC University, Barcelona, 25<sup>th</sup> of March 2015.
9. Certification of Spanish language training course at levels (A1-A2), Barcelona, Spain, 2014-15.
10. A training-specialized workshop on Publication and Research Evaluation, Web of Knowledge and Scopus Digital Library, UPC University, Barcelona, Spain, October 2013.
11. A training course on “Reference Managers (Mendeley Premium)”, UPC University, Barcelona, Dec 2013.
12. MOLTO (Multilingual Online Translation) project seminar, UPC University, Barcelona, May 2013.
13. Academic IELTS Certificate, test report form No. 12IR002725LATM060A, center number 060, date 25/AUG/2012, British council, IELTS Australia, University of Cambridge ESOL examination.
14. A training-specialized workshop on network and operating Linux-based network services, Azad Univeristy of Hamedan, 2009.
15. “Information Security Management System (ISMS), organizational portals, Linux-based servers and J2EE and SOA architectures”, 2<sup>nd</sup> scientific network training seminar, Shahid Beheshti University, Tehran, 2007.
16. Integrated Information Network (IIN) training seminar on Rose-Net workshop, Islamic Azad University, Khorasgan Unit, 20<sup>th</sup>-21<sup>st</sup> June, 2004.
17. Pedagogy, tutorship, and coaching test certificate, duration of course 120 hours, Technical Education and Vocational Organization, Hamedan, 2003.