Curriculum Vitae

First Name: Masood Last Name: Ghayoomi Date of Birth: 18.04.1979 Place of Birth: Ghom Nationality: Iranian Marital Status: Married Working Place: Institute for Humanities and Cultural Studies Email: M.Ghayoomi@ihcs.ac.ir

Research Interests

- Natural Language Processing
- Language Modeling
- Machine Learning
- Corpus Linguistics
- Syntax
- Lexical Semantics

Education

 Ph.D. in Computer Science (Computational Linguistics) Department of Mathematics and Computer Science Freie Universität Berlin, Berlin, Germany Supervisors: Prof. Dr. Raúl Rojas, Prof. Dr. Stefan Müller, Prof. Dr. Kiril Ivanov Simov
Research Visiting Institute for Natural Language Processing Universität Stuttgart, Stuttgart, Germany <i>Supervisor</i> : Prof. Dr. Jonas Kuhn
Research Visiting Linguistics Modeling Department Bulgarian Academy of Sciences <i>Supervisor</i> : Prof. Dr. Kiril Ivanov Simov
MSc in Language Science and Technology Department of Computational Linguistics and Phonetics Universität des Saarlandes, Saarbrücken, Germany Supervisor: Prof. Dr. Manfred Pinkal, Dr. Caroline Sporleder
MSc in Computer, Cognition, and Application (specialization in Natural Language Processing) Department of Computer Science Nancy2 Université, Nancy, France Supervisor: Dr. Bruno Guillaum

2001–2004	MA in General Linguistics Department of Foreign Languages Tehran Azad University, Tehran, Iran	
	Supervisors: Prof. Dr. Mostafa Assi, Prof. Dr. Mahmood Bijankhan	
1997–2001	BA in English Language Translation (English-Persian) Department of Foreign Languages Ghom Azad University, Ghom, Iran	
1993–1997	Secondary School Diploma in Experimental Sciences Khātam-al-anbiā High School, Ghom, Iran	

Awards and Scholarships

2018	Award of Dr. Kazemi Ashtiyani	
	Iran's National Elites Foundation, Tehran, Iran	
2012-2013	SFB 732 "D2 Combining Contextual Information Sources for Dis-	
	ambiguation in Parsing and Choice in Generation"	
	Stuttgart Universität, Stuttgart, Germany	
2009-2012	DFG for PerGram	
	Freie Universität Berlin, Berlin, Germany	
2007-2009	EU Erasmus Mundus in 'Language and Communication Technologies	
	Nancy2 Université, Nancy, France (2007-2008)	
	Universität des Saarlandes, Saarbrücken, Germany (2008-2009)	

Working Experience

2018–present	Head of the Secretariat Office for World Universities's Ranking
2018-2020	Member of the International Council Office
2015–present	Assistant Professor Applied Linguistics Group Department of Linguistics Institute for Humanities and Cultural Studies, Tehran, Iran <i>Project 1</i> : Studying issues for automatic processing of the Persian language on lemmatization, part-of-speech tagging, and parsing: Developing a software using machine learning methods <i>Project 2</i> : Unsupervised machine learning methods to induce word senses from a linguistic corpus
2014	Research Assistant Computer Science Department Cooperative State University, Karlsruhe, Germany <i>Project</i> : Automated Spelling Diagnosis <i>Supervisors</i> : Prof. Dr. Kay Berkling, Junior Prof. Dr. Johanna Fay, Dr. Sebas- tian Stücker <i>Task</i> : In this project, I developed a web-based Graphical User Interface (GUI) to extract data from a linguistics data base and Email it to the user. To develop this GUI, I used HTML, PHP, Javascript, and Perl.

 2009–2012 Research Assistant German Grammar Group Freie Universität Berlin, Berlin, Germany Project: Theory and Implementation of an HPSG-grammar for Persian (Per- Gram) Supervisors: Prof. Dr. Stefan Müller, Prof. Dr. Pollet Samvalian Task: In this project, I introduced methods in order to extract automatically lexical knowledge and linguistics information from a corpus. Moreover, I intro- duced methods to reduce human intervention to prepare the data. 2003–2007 Research Assistant Institute for Humanities and Cultural Studies, Tehran, Iran Project: Expanding the Persian Linguistics Data Base (PLDB) Supervisor: Prof. Dr. Mostafa Assi Task: In this project, I tried to manage and organize linguistics data. To this end, I developed a data base. Moreover, I was the coordinator of the project. 2005–2007 Research Assistant Samt Organization, Tehran, Iran Project: Compiling the Persian Advanced Learners' Dictionary Supervisor: Prof. Dr. Mostafa Assi Task: In this project, I tried to manage and organize linguistics data. I mainly functioned as the coordinator of the project. 2006–2007 Interpreter and Translator Master Company, Tehran, Iran Task: In the Master Company, an importer of artificial leather, I worked as English-Persian interpreter and translator. 2005 Corpus Developer Samt Organization, Tehran, Iran Trask: In this project, I collected a huge amount of linguistics data from Web and organized it to be used for computational linguistics purposes. I also worked as a linguistic consultant. 2005 Research Assistant Shegerf Company, Tehran, Iran Task: In this project, I collected a suge anount of linguistics purposes. I also worked as a linguistic consultant. 	2013–2014	Research Assistant Institute for German Language and Literature Karlsruhe University of Education, Karlsruhe, Germany <i>Project</i> : Automated Spelling Diagnosis <i>Supervisors</i> : Prof. Dr. Kay Berkling, Junior Prof. Dr. Johanna Fay, Dr. Sebas- tian Stücker <i>Task</i> : In this project, I managed and organized a collection of linguistics data to make it possible to extract the required information from the data set. To this end, I wrote scripts by Perl and Javascript to process the data and extract the required information.
 Institute for Humanities and Cultural Studies, Tehran, Iran Project: Expanding the Persian Linguistics Data Base (PLDB) Supervisor: Prof. Dr. Mostafa Assi Task: In this project, I tried to manage and organize linguistics data. To this end, I developed a data base. Moreover, I was the coordinator of the project. 2005–2007 Research Assistant Samt Organization, Tehran, Iran Project: Compiling the Persian Advanced Learners' Dictionary Supervisor: Prof. Dr. Mostafa Assi Task: In this project, I tried to manage and organize linguistics data. I mainly functioned as the coordinator of the project. 2006–2007 Interpreter and Translator Master Company, Tehran, Iran Task: In the Master Company, an importer of artificial leather, I worked as English-Persian interpreter and translator. 2005 Corpus Developer Samt Organization, Tehran, Iran Project: Corpus Developer Samt Organization, Tehran, Iran Project: Corpus Developer Samt Organization, Tehran, Iran Project: Corpus Developer from Persian on-line Newspaper Archives Task: In this project, I collected a huge amount of linguistics data from Web and organized it to be used for computational linguistics purposes. I also worked as a linguistic consultant. 2005 Research Assistant Shegerf Company, Tehran, Iran Task: In the Shegerf company, I worked as a linguistic consultant to develop a 	2009–2012	German Grammar Group Freie Universität Berlin, Berlin, Germany <i>Project</i> : Theory and Implementation of an HPSG-grammar for Persian (Per- Gram) <i>Supervisors</i> : Prof. Dr. Stefan Müller, Prof. Dr. Pollet Samvalian <i>Task</i> : In this project, I introduced methods in order to extract automatically lexical knowledge and linguistics information from a corpus. Moreover, I intro-
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	2005	Shegerf Company, Tehran, Iran <i>Task</i> : In the Shegerf company, I worked as a linguistic consultant to develop a

Teaching Experience

2016–now	Institute for Humanities and Cultural Studies, Tehran, Iran Basic Computer
2017	The University of Tehran, Tehran, Iran Knowledge Management and Ontology
2016-2017	Sharif University of Technology, Tehran, Iran Advanced Syntax Morphology
2016	AlZahra University, Tehran, Iran Computational Linguistics (PhD level) Individual Study (PhD level)
$\begin{array}{c} 21.1.2017 \text{ to} \\ 25.2.2017 \end{array}$	Institute for Humanities and Cultural Studies Practical Workshop on LAT_EX
6.11.2016	Institute for Humanities and Cultural Studies Workshop on LATEX for Linguists
2016	Islamic Azad University (South Branch), Tehran, Iran: Applied Linguistics (PhD level)
2003–2007	University of Applied Science and Technology, Tehran, Iran (The lectures were in English): Reading Comprehension I, II, and III Conversation I, II Laboratory Grammar I Phonetics General English
2003	Sepid Language School Sadrā Language School
1998	Gooyesh Language School

Invited Talks, Presentations, Demos in Conferences and Workshops

	Digital Humanities: Application of the Information Technology in the Humanities
26.12.2017	Institute for Humanities and Cultural Studies, Tehran, Iran
	Natural Language Processing and the Persian Language: Require- ments and Challenges
14.10.2014	IranDoc, Tehran, Iran
	From HPSG-based Persian Treebanking to Parsing: Machine Learn-
	ing for Data Annotation
17.07.2014	Universität des Saarlandes, Saarbrücken
17.12.2012	Goethe Universität, Frankfurt
14.12.2012	Universität Stuttgart, Stuttgart

	Introducing the HPSG-based Persian Treebank and its Development	
	Methodology	
11.06.2012	Information Technology Research Center, Tehran, Iran	
10.06.2012	Institute for Humanities and Cultural Studies, Tehran, Iran	
03.06.2012	Sharif University of Technology, Tehran, Iran	
	Design and Implementation of Interaction Grammar for Persian	
31.12.2009	LSI 1st Seminar on Persian in Cyber-space, Institute for Humanities and Cul-	
	tural Studies, Tehran, Iran	
24-26.06.2008	NaTAL Workshop, Nancy2 Université, Nancy, France	
	Frame Assignment with Active Learning	
18-19.06.2009	NaTAL Workshop, Nancy2 Université, Nancy, France	
	Software Development for Persian Word Prediction	
27-28.06.2006	Demonstrated at the 2nd Workshop on Persian and Computer, cooperated with	
	Ehsan Daroodi, The University of Tehran, Tehran, Iran	
25 - 26.05.2004	Demonstrated at the 1st Workshop on Persian and Computer, The University	
	of Tehran, Tehran, Iran	

Additional Activities

	Conference Chair	
2018	4th National Conference on Computational Linguistics	
	Member of the Program Committee, Journal or Conference Re-	
	viewer	
2017	A Journal of Comparative Linguistic Researchers	
	Journal of Language Studies	
2016	Farhange Moāser Encyclopedia	
2015	Journal of Language and Linguistics	
	International Journal of Signal and Data Processing	
2013	Behavior Research Methods	
2009	Corpora Journal	
2018	4th National Conference on Computational Linguistics	
2017	9th Conference on Language and Knowledge Technology	
2016	2nd National Conference on Corpus Linguistics	
2014	3rd Conference of Computational Linguistics, Tehran, Iran	
0017	Scientific Book Reviewer	
2017	Samt Press	
	Project Supervisor	
2016-2017	Developing a Persian Treebank with a Persian Syntactic Parser by the Univer-	
2010-2017	sity of Tehran	
2016-2017	Developing a Persian Treebank with a Persian Syntactic Parser by the Khaje	
2010-2017	Nasire Toosi University	
	Member of the Executive Committee	
11.2007	the 7th Conference of Linguistics at Allāme-Tabātabāyi University	
27-28.06.2006	the 2nd Workshop on Persian and Computer at the University of Tehran	
14-15.03.2006	the 1st Conference of the Linguistics Society of Iran at the University of Tehran	

	Member of Scientific or Student Societies	
2017-now	Member of the Computer Society of Iran	
2003-now	Member of the Linguistic Society of Iran	
2010 - 2016	Member of the Union of Islamic Students' Associations (in Europe)	
2005 - 2007	Layout formatter of the Journal of Language and Linguistics belonging to the	
	Linguistic Society of Iran	
2003 - 2007	Representative of the Computational Linguistics Committee in LSI	

Languages

Persian	Native
English	Fluent
German	Intermediate
French	Beginner

Computer Knowledge

OS	Mac (Very Good), Linux (Very Good), Windows (Very Good)	
Programming L.	Perl (Very Good), Python (Good), Java (Good), Prolog (Basic)	
Markup L.	HTML (Very Good), XML (Very Good)	
Web L.	Javascript (Good), PHP (Good)	
Query L.	XPath (Very Good), SPARQL (Basic)	
Editors	LaTeX (Very Good), Emacs (Very Good), MS Office (Very Good), LibreOffice	
	(Very Good)	
Data Base	Access (Very Good), MySQL (Basic)	

Publications

Dissertations

2014	Masood Ghayoomi. From HPSG-based Persian Treebanking to Parsing: Ma-
	chine Learning for Data Annotation. PhD thesis, Freie Universität Berlin,
	Berlin, Germany, 2014

- 2009 Masood Ghayoomi. Frame Assignment with Active Learning. Master's thesis, Universität des Saarlandes, Saarbrücken, Germany, 2009
- 2008 Masood Ghayoomi. Interaction Grammar for the Persian Language. Master's thesis, Nancy2 Université, Nancy, France, 2008
- 2004 Masood Ghayoomi. pišbiniye vāže dar pardāzeše rāyāneyiye zabāne fārsi ["Word Prediction in Computational processing of the Persian language"]. Master's thesis, Islamic Azad University, Tehran Central Branch, Iran, 2004

Papers as Book Chapters or Journals

2018 Saghar Sharifi, Masood Ghayoomi, and Marziye Sana'ati. tanavvo?e negāreši dar fārsi va tahiyeye peykarehāye zabāni dar qālebe farhang ["spelling variation in Persian and developing a corpus in the form of a dictionary"]. Name-ye Farhangestan: The Special Issue on Lexicography, (12), forthcoming

Ahmad Pouramini, Masood Ghayoomi, and Amineh Naseri. Converting dependency treebank to constituency treebank for persian. *Signal and Data Processing*, 14(4):79–96, 2018

- 2017 Masood Ghayoomi. barresiye mogāyese?iye ta?sire barčasbzaniye maqulāte dasturi bar tajziye dar pardāzeše xodkāre zabāne fārsi [a comparative study on the impact of part-of-speech tagging on parsing for the Persian language processing]. Journal of Signal and Data Processing, 13(4):121–132, 2017
- 2016 Masood Ghayoomi. tahiyyeye xodkāre zirpeykare is pekareye zabāni [automatic development of a sub-corpus from a language corpus]. In *Proceedings of the 2nd National Conference on Corpus Linguistics*, pages 167–184, Tehran, Iram, September 2016. Nevise-Parsi Press
- 2015 Johanna Fay, Katrin Hein, and Masood Ghayoomi. Wortfrequenz und Rechtschreibleistung ["Word frequency and correct spelling"]. *Muttersprache*, 2:156–170, 2015
- 2014 Katrin Hein, Johanna Fay, and Masood Ghayoomi. 'Kleine Wörter' systemlinguistische, sprachdidaktische und empirische Untersuchung einer Wortgruppe mit Sonderstellung innerhalb der diagnostischen Rechtschreibanalyse ["'Small Words' – Linguistic system, language teaching and empirical investigation of a word group with special position within the diagnostic spelling analysis"], volume 2 of Theorie, Empirie und Praxis effektiver Rechtschreibdiagnostik ["Theory, Empiricism and Practice of Effective Spelling Diagnostics"], pages 43–62. Stauffenburg Verlag GmbH, Tübingen, Deutschland, 2014
- 2012 Masood Ghayoomi. Bootstrapping the development of an HPSG-based treebank for Persian. *Linguistic Issues in Language Technology*, 7(1), 2012
- 2011 Mahmood Bijankhan, Javad Sheykhzadegan, Mohammad Bahrani, and Masood Ghayoomi. Lessons from building a Persian written corpus: Peykare. *Language Resources and Evaluation*, 45(2):143–164, 2011
- 2010 Masood Ghayoomi, Saeedeh Momtazi, and Mahmood Bijankhan. A study of corpus development for Persian. *International Journal on Asian Language Processing*, 20(1):17–33, 2010

Papers in Conferences and Workshops

- 2018 Masood Ghayoomi. mas?aleye čandvāžegi dar pardāzeše nahve rāyānešiye zabāne fārsi [the problem of multi-words in syntactic processing of Persian]. In Proceedings of the Fourth Nation Conference on Computational Linguistics, pages 11–40, Tehran, Iran, February 2018. Neviseh Parsi Press
- 2016 Masood Ghayoomi. tahiyyeye xodkāre zirpeykare is pekareye zabāni [automatic development of a sub-corpus from a language corpus]. In *Proceedings of the 2nd National Conference on Corpus Linguistics*, pages 167–184, Tehran, Iram, September 2016. Nevise-Parsi Press

2015 Masood Ghayoomi, Saghar Sharifi, and Marziyeh Sanaati. tanavvo?e negāreši dar zabāne fārsi va tahiyyeye xodkāre dādegāne ?emlāyi ?az peykareye zabāniye mobtani bar veb [spelling variation in the Persian language and automatic development of a spelling database from a Web-based corpus]. In *Proceedings* of the 1st International Conference on Web Research, University of Science and Culture, Tehran, Iran, 2015

Saghar Sharifi, Marziyeh Sanaati, and Masood Ghayoomi. Spelling variation problem in Persian: Automatic development of a spelling database for a digital dictionary. In *Proceedings of the 9th International Conference of ASIALEX* 2015 Hong Kong: Words, Dictionaries and Corpora : Innovations in Reference Science, pages 488–497, The Hong Kong Polytechnic University, Hong Kong, 2015

2014 Saeedeh Momtazi and Masood Ghayoomi. Weakly supervised text categorization using topic modeling. In *Proceedings of the 3rd Conference on Computational Linguistics*, Tehran, Iran, 2014

MohammadBagher Sadeghzadeh, MohammadReza Razzazi, and Masood Ghayoomi. Studying the effecting methods on the performance of a statistical parser for the Persian language. In *Proceedings of the 3rd Conference on Computational Linguistics*, Tehran, Iran, 2014

Masood Ghayoomi and Jonas Kuhn. Converting an HPSG-based treebank into its parallel dependency-based treebank. In *Proceedings of the 9th International Conference on Language Resources and Evaluation*, pages 802–809, Reykjavik, Iceland, 2014

Masood Ghayoomi, Kiril Simov, and Petya Osenova. Constituency parsing of Bulgarian: Word- vs class-based parsing. In *Proceedings of the 9th International Conference on Language Resources and Evaluation*, pages 4056–4060, Reykjavik, Iceland, 2014

Kay Berkling, Johanna Fay, Masood Ghayoomi, Katrin Hein, Rémi Lavalley, Ludwig Linhuber, and Sebastian Stüker. A database of freely written texts of German school students for the purpose of automatic spelling error classification. In *Proceedings of the 9th International Conference on Language Resources* and Evaluation, pages 1212–1217, Reykjavik, Iceland, 2014

Johanna Fay, Kay Berkling, Sebastian Stücker, Masood Ghayoomi, Katrin Hein, and Rémi Lavalley. Zwei Perspektiven auf Rechtschreibung: Sprachdidaktik und Computerlinguistik entwickeln ein Instrument zur Rechtschreibdiagnostik ["Two perspectives on correct spelling: Using speech recognition and computational linguistics to develop an instrument for spelling diagnostics"]. In Zweiten Tagung der Gesellschaft für Empirische Bildungsforschung (GEBF), Frankfurt am Main, Germany, 2014

2013 Masood Ghayoomi and Jonas Kuhn. Sampling methods in active learning for treebanking. In *Proceedings of the 12th International Workshop on Treebanks* and Linguistic Theories, pages 49–60, Sofia, Bulgaria, 2013

Masood Ghayoomi. Introducing a treebank and a statistical parser for Persian. In *Proceedings of the 8th Conference of Iranian Linguistics*, volume 2, pages 666–679, 2013 2012 Masood Ghayoomi and Omid Moradiannasab. The effect of treebank annotation granularity on parsing: A comparative study. In *Proceedings of the 11th International Workshop on Treebanks and Linguistic Theories*, pages 109–114, Lisbon, Portugal, 2012. Edições Colibri

Masood Ghayoomi. Word clustering for Persian statistical parsing. In Hitoshi Isahara and Kyoko Kanzaki, editors, Advances in Natural Language Processing, volume 7614 of Lecture Notes in Computer Science: JapTAL '12: Proceedings of the 8th International Conference on Advances in Natural Language Processing, pages 126–137. Springer Berlin Heidelberg, 2012

Masood Ghayoomi. From grammar rule extraction to treebanking: A bootstrapping approach. In *Proceedings of the 8th International Conference on Language Resources and Evaluation*, pages 1912–1919, Istanbul, Turkey, 2012

- 2011 Masood Ghayoomi and Stefan Müller. Multi-token units and multi-unit tokens in developing an HPSG-based treebank for Persian. In 4th International Conference on Iranian Linguistics, page 29, 2011
- 2010 Stefan Müller and Masood Ghayoomi. PerGram: A TRALE implementation of an HPSG fragment of Persian. In *Proceedings of 2010 IEEE International Multi-conference on Computer Science and Information Technology*, pages 461– 467, Wisła, Poland, 2010

Masood Ghayoomi. Using variance as a stopping criterion for active learning of frame assignment. In Proceedings of the Human Language Technology-Conference of the North American Chapter of the Association for Computational Linguistics, Workshop on Active Learning for Natural Language Processing, pages 1–9, Los Angeles, USA, 2010

2009 Masood Ghayoomi and Saeedeh Momtazi. Challenges in developing Persian corpora from online resources. In *Proceedings of 2009 IEEE International Conference on Asian Language Processing*, pages 108–113, 2009

Masood Ghayoomi and Saeedeh Momtazi. An overview on the existing language models for prediction systems as writing assistant tools. In *Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics*, pages 5233–5237, 2009

Masood Ghayoomi and Bruno Guillaume. Interaction grammar for the Persian language: Noun and adjectival phrases. In *Proceedings of the Association for Computational Linguistics and International Joint Conference on Natural Language Processing, 7th Workshop on Asian Language Resources*, pages 107–114, Suntec, Singapore, 2009. Association for Computational Linguistics

- 2008 Masood Ghayoomi and Ehsan Daroodi. A POS-based word prediction system for the Persian language. In Bengt Nordström and Aarne Ranta, editors, *Advances in Natural Language Processing*, volume 5221 of *Lecture Notes in Computer Science: GoTAL '08: Proceedings of the 6th International Conference on Advances in Natural Language Processing*, pages 138–147. Springer Berlin Heidelberg, 2008
- 2007 Shahram Modarres-Khiabani and Masood Ghayoomi. The role of statistics as means for studying lexical relations. In *Proceedings of the 7th Conference of Iranian Linguistics*, pages 604–618, 2007

2006 Masood Ghayoomi. Using word prediction systems for users with disabilities: A case study. In *Proceedings of the 2nd Workshop on the Persian Language* and Computer, pages 216–225, 2006

Niloufar Mansoori-Haredasht, Masood Ghayoomi, and Zahra Abolhasani-Chimeh. Using conceptual graphs for semantic representation of Persian prepositions. In *Proceedings of the 1st Conference of the Linguistics Society of Iran*, pages 105–115, 2006

Zahra AbolhasaniChime and Masood Ghayoomi. Incorporation: Word production of Persian prepositions and its application in computational linguistics. In *Proceedings of the 2nd Workshop on the Persian Language and Computer*, pages 16–24, 2006

Shahram Modarres-Khiabani and Masood Ghayoomi. Using language corpora in studying collocation: A comparative approach. In *Proceedings of the 2nd Workshop on the Persian Language and Computer*, pages 55–65, 2006

- 2005 Masood Ghayoomiand SeyyedMostafa Assi. Word prediction in a running text: A statistical language modeling for the Persian language. In *Proceedings of the Australasian Language Technology Workshop*, pages 57–63, Sydney, Australia, 2005
- 2004 Masood Ghayoomi. *pišbiniye vāže dar pardāzeše rāyāneyiye zabāne fārsi* ["Word Prediction in Computational processing of the Persian language"]. Master's thesis, Islamic Azad University, Tehran Central Branch, Iran, 2004

Project Reports

2009	Hole Semantics and Minimal Recursion Semantics: A Comparison Approach Underspecification Seminar
	Universität des Saarlandes, Saarbrücken, Germany
2008	TAG for the Persian Language
	Linguistics Course
	Nancy2 Université, Nancy, France
	XSL for Transforming XML Recognition Results
	Web Technology Course
	Nancy2 Université, Nancy, France
2007	XMG Grammar for English NLP
	Tools and Application Course
	Nancy2 Université, Nancy, France

April 23, 2018 Tehran, Iran Masood Ghayoomi