

Mohammad Sadegh Rasooli

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RESEARCH INTERESTS

Natural Language Processing (Structured Prediction, Deep Learning for NLP)

EDUCATION

PhD Student (2012-Present)

Department of Computer Science, Columbia University, New York, NY.
Advisor: Prof. Michael Collins

Master of Science (2012-2014)

Department of Computer Science, Columbia University, New York, NY.

Master of Science (2009-2012)

Artificial Intelligence and Robotics, Computer Engineering Department, Iran University of Science and Technology, Tehran, Iran

Bachelor of Science (2005-2009)

Software Engineering, Computer Engineering Department, Iran University of Science and Technology, Tehran, Iran

EMPLOYMENT

- **Research Intern**, Mentor: Sarangarajan Parthasarathy, Language Modeling Group, Microsoft Artificial Intelligence and Research, Sunnyvale, CA, Summer 2017.
- **Research Assistant**, Computer Science Department, Columbia University, 2014-Present.
- **Research Intern**, Mentor: Kuzman Ganchev, Google Research, New York, Summer 2015.
- **Research Intern**, Mentor: Joel Tetreault, Yahoo! Labs, New York, NY, Summer 2014.
- **Research Intern**, Mentor: Joel Tetreault, CoreNL group, Natural Language Understanding Lab, Nuance, Sunnyvale, CA, Summer 2013.
- **Research Assistant**, Center for Computational Learning Systems, Columbia University, New York, NY, 2012-2014.
- **Project Head**, Dadegan Research Group: Persian Linguistic Resource Based on Dependency Grammar (Persian Dependency Treebank and Valency Lexicon of Persian Verbs), Supreme Council of Information and Communication Technology (SCICT), Tehran, Iran, 2010-2012.
- **Researcher and Developer**, Virastyar Project (project for spell checking and machine translation), Computer Research Center of Islamic Sciences, Tehran, Iran, 2009-2010.

SELECTED PUBLICATIONS

Google Scholar page: <http://scholar.google.com/citations?user=UVTYgJIAAAAJ&hl=en>

1. Maryam Aminian, **Mohammad Sadegh Rasooli**, Mona Diab. Transferring Semantic Roles Using Translation and Syntactic Information. IJCNLP 2017.
2. **Mohammad Sadegh Rasooli**, Noura Farra, Axinia Radeva, Tao Yu and Kathleen McKeown. Cross-Lingual Sentiment Transfer with Limited Resources. Machine Translation: Special Issue on NLP in Low-Resource Languages. 2017.
3. **Mohammad Sadegh Rasooli** and Michael Collins. Cross-Lingual Syntactic Transfer with Limited Resources. Transactions of the ACL, 5:279–293, 2017.
4. **Mohammad Sadegh Rasooli** and Michael Collins. Density-Driven Cross-Lingual Transfer of Dependency Parsers. EMNLP 2015.

5. Alireza Nourian, **Mohammad Sadegh Rasooli**, Mohsen Imany and Hessaam Faili. On the Importance of Ezafe Construction in Persian Parsing. ACL-IJCNLP 2015.
6. **Mohammad Sadegh Rasooli** and Joel Tetreault. Yara Parser: A Fast and Accurate Dependency Parser. arXiv:1503.06733v1, 23 Mar 2015.
7. Xiaodong Cui, Brian Kingsbury, Jia Cui, Bhuvana Ramabhadran, Andrew Rosenberg, **Mohammad Sadegh Rasooli**, Owen Rambow, Nizar Habash and Vaibhava Goel. Improving Deep Neural Network Acoustic Modeling For Audio Corpus Indexing Under The IARPA Babel Program. INTERSPEECH 2014.
8. **Mohammad Sadegh Rasooli**, Thomas Lippincott, Nizar Habash and Owen Rambow. Unsupervised Morphology-Based Vocabulary Expansion. ACL 2014.
9. **Mohammad Sadegh Rasooli** and Joel Tetreault. Non-Monotonic Parsing of Fluent Umm I mean Disfluent Sentences. EACL 2014.
10. **Mohammad Sadegh Rasooli** and Joel Tetreault. Joint Parsing and Disfluency Detection in Linear Time, EMNLP 2013.
11. **Mohammad Sadegh Rasooli**, Ahmed El Kholy and and Nizar Habash. Orthographic and Morphological Processing for Persian to English Statistical Machine Translation, IJCNLP 2013.
12. **Mohammad Sadegh Rasooli**, Manouchehr Kouhestani, and Amirsaeid Moloodi. Development of a Persian Syntactic Dependency Treebank, NAACL 2013.
13. **Mohammad Sadegh Rasooli** and Hessaam Faili. Fast Unsupervised Dependency Parsing with Arc-Standard Transitions, in EACL workshop on ROBUST-NLP 2012: Joint Workshop on Unsupervised and Semi-Supervised Learning in NLP, pp. 1-9, Avignon, France, 2012.

TEACHING EXPERIENCE

- Co-instructor for natural language processing course, taught by Prof. Michael Collins, Columbia University, Spring 2015.
- TA for natural language processing course (recitation and grading), taught by Prof. Michael Collins, Columbia University, Fall 2013.
- “An Introduction to Linguistic Structure Prediction”, a tutorial course in Computer Research Center of Islamic Sciences (5 sessions), Qom, Iran, Spring and Summer 2012.
- TA for Artificial Intelligence course, taught by Dr. Behrouz Minaei-Bidgoli, Iran University of Science and Technology, 5 semesters from fall 2009-fall 2011.

HONORS

- Ranked %0.6 among about 400,000 competitors of national B.Sc. university entrance exam in Math and Physics, 2005.
- Ranked %0.36 among about 250,000 competitors of national B.Sc. university entrance exam in English language, 2005.

PROFESSIONAL SERVICES

ACL-related reviewing: EMNLP 2015, NAACL 2016, ACL 2016, EMNLP 2016, ACL 2017, EMNLP 2017, Computational Linguistics, ACM Transactions on Asian Language Information Processing (TALIP), LRE, TACL.

Conference reviewing: Symposium on Artificial Intelligence and Signal Processing (AISP 2013), 19th International Conferences of Computer Society of Iran (CSICC 2013), 1st National Conference on the Semantics and Syntax of Iranian Linguistics 2014.

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, C++.

LANGUAGES

Persian: Native; **English:** Fluent; **Arabic:** Grammar and reading fair.