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Hamidreza Ghader

Research Interest

Natural Language Processing, Statistical Machine Translation (Neural and Phrase-based), Machine Learning.

Education

2014

Ph.D. Computer Science, *University of Amsterdam*, Amsterdam.

I am working on statistical machine translation in the Information and Language Processing Systems (ILPS) group. My current focus is on neural machine translation and studying what is captured internally by neural machine translation systems. I have also worked on phrase-based machine translation with a focus on reordering models.

Supervisors: Christof Monz and Maarten de Rijke

2009
2012

M.Sc. Artificial Intelligence, *Iran University of Science and Technologies*, Tehran.

Thesis: A Bayesian Model of Cognition for Grammar Induction from Natural Language Corpora

Supervisors: Morteza Analoui and Heshaam Faili

2003
2008

B.Sc. Software Engineering, *University of Tehran*, Tehran.

Technical Experience

2018

Research Intern, *AIP, RIKEN* (National Research Institute of Japan).

I worked on Wikipedia classification and creating knowledge graphs on low resource languages.

2016

Co-developer of a Phrase-based Machine Translation System, *ILPS Group*, University of Amsterdam.

This is part of [REMEDI \(Robust and Efficient Machine Translation in a Distributed Infrastructure\)](#) project. [[Github Page for the Decoder](#)] [[Github Page for Model Building Tools](#)]

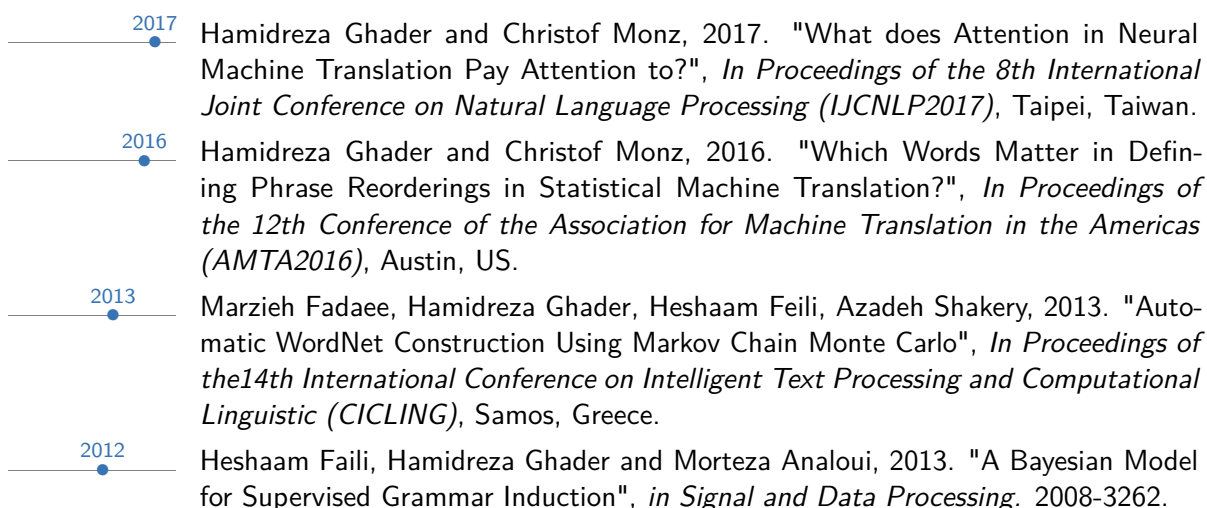
2014

Research Assistant, *ILPS Group*, University of Amsterdam.

Involved in development of multiple in-house machine translation systems including phrase-based and neural systems. Conducting code development, data preprocessing, experiments and documenting the systems.



publication



Skills

Machine Learning

Models	Neural Networks, Bayesian Models, Classification and Clustering Algorithms
Frameworks	Torch, PyTorch, Tensorflow

Development

Design	Object-oriented design, analysis and implementation Algorithm design and analysis
Languages	Professionally experienced in C/C++, C# and Java Experienced in Perl, MATLAB Competent in Python, Lua, Bash, SQL
NLP Tools	OpenNMT, Moses, SRILM, KenLM, Stanford CoreNLP

Typesetting L^AT_EX, Microsoft Office

Markup XML, HTML, CSS

Languages

Social Skills and Competences

Team-work, adaptability and flexibility which I have developed by participating in group projects during my research and work experiences in various companies.

Community Service

Organizational Organizer and Chair of Weekly Seminars of ILPS Group, 2017

Reviewing WMT2017, CSICC2016, CSICC2015

Campaigns Team member and Co-developer of Machine Translation Systems of the Team of University of Amsterdam for NIST Open MT Evaluation, 2015

Summer Machine Translation Marathon, 2014, Trento, Italy
Schools

Teaching

2015
2017

Teaching Assistant, University of Amsterdam.

Machine Learning Course, Bachelor Course for Artificial Intelligence, 2017

Machine Learning Course, Bachelor Course for Artificial Intelligence, 2016

Machine Learning Course, Bachelor Course for Artificial Intelligence, 2015

2010
2011

Teaching Assistant, Iran University of Science and Technology.

Statistical Pattern Recognition Course, M.Sc. Course for Artificial Intelligence, 2011

Statistical Pattern Recognition Course, M.Sc. Course for Artificial Intelligence, 2010

2011

Teaching Assistant, University of Tehran.

Natural Language Processing Course, M.Sc. Course for Artificial Intelligence, 2011

2006

Teaching Assistant, University of Tehran.

Database Laboratory Course, Bachelor Course for Software Engineering, 2006

Languages

Persian **Native**

English **Fluent**

Dutch **A2**

Achievements

- Ranked 312th among more than 500,000 participants in Iran National Universities Entrance Exam, 2003.
- Two times championship in futsal with the team of faculty of engineering in sport tournaments of University of Tehran, 2006 and 2007.
- Two times championship in futsal at level 6 and 5 of the largest futsal competitions in the Netherlands ([USC League](#)).