

# SHIVA TASLIMPOOR

Research Group in Computational Linguistics ◊ University of Wolverhampton  
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## RESEARCH INTERESTS

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Natural Language Processing, Multiword Expressions, Semantic Similarity, Figurative Language, Cross-lingual Text Processing, Machine Learning, Information Retrieval.

## EDUCATION

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**PhD in Natural Language Processing**, University of Wolverhampton, UK 2014-2018

- . Thesis: Automatic Identification and Translation of Multiword Expressions
- Supervisor: Prof. Ruslan Mitkov

**M. Sc. in Artificial Intelligence**, Shiraz University 2009-2012

- . Thesis: Automatic Investigation of the Semantics of Persian Compound Verbs
- Supervisor: Dr. Afsaneh Fazly

**B. Sc. in Computer Science and Engineering**, Shiraz University 2004-2008

- . Thesis: Detecting Openness of Pistachio Nuts Using Image Classification Methods
- supervisor: Prof. Zohreh Azimifar

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, MATLAB, Java, C/C++, Perl
<b>NLP Tools</b>	SpaCy, Gensim, NLTK, SketchEngine, WordNet
<b>ML Tools</b>	Keras (with Tensorflow backend), Scikit-learn
<b>ML Expertise</b>	Deep learning, representation learning, classification, regression, tagging, structured prediction and statistical analysis

## WORK & RESEARCH EXPERIENCE

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**Postdoctoral Research Associate** October 2018 - Present  
*Research Group in Computational Linguistics, University of Wolverhampton*

- . working on a project on *predicting item characteristics for Multiple Choice Question Answering*

**PhD Candidate Researcher** July 2014 - July 2018  
*Research Group in Computational Linguistics, University of Wolverhampton*

- . **Multiword Expression (MWE) identification**
  - proposed task-specific neural sequence labelling methods to identify MWEs (implemented in **Keras**)
  - proposed a classification approach to disambiguate idiomatic expressions (using **gensim** & **sklearn**)
  - re-examined standard evaluation for MWEs & proposed a more accurate cross-validation method
  - utilised features derived from eye tracking data to improve MWE identification
- . **Extracting Translation Equivalents (TE)**
  - proposed an original semi-supervised **word2vec**-based method to extract TEs for MWEs
  - developed and exploited comparable corpora for low resource languages
- . **Other research activities**
  - developed irony detection system using sentiment and embedding features
  - semantic discrimination modelling using SketchEngine, ConceptNet, embeddings & google Ngrams

**Researcher & Developer** 2013 - 2014  
*Computer Vision and Pattern Recognition Lab, Shiraz University*

- . on solving Stereopsis problems for traffic analysis project for the Municipality of the city of Shiraz

## Instructor

*Fall 2012 & Spring 2013*

- **Discrete Mathematics**, Jahrom University
- **Data Structures**, Jahrom University
- **Intro. to Formal Languages & Automata**, Andisheh Institute of higher Education, Jahrom
- **Artificial Intelligence**, Andisheh Institute of higher Education and Azad University of Jahrom
- **Supervisory of B.Sc projects**, Jahrom University
  - VSMs in Semantics, Document Categorization, Text Summerization, Spam Filtering, Machine Translation, etc.

## ACADEMIC ACHIEVEMENTS

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**Ranked 1st** in Parseme 2018 shared task on “automatic identification of verbal multiword expressions”  
**Ranked 3rd** in SemEval 2018 shared task 3 “Irony detection in English tweets”  
**Ranked 4th** (joint) in SemEval 2018 shared task 10 “Capturing Discriminative Attributes”  
**Best paper award** in RANLP 2017  
**Best paper award** by a young researcher in Europhras2015  
PARSEME grant for the 2nd training school  
Ph.D. Scholarship from the University of Wolverhampton, UK, (2014-2017)

## COMMUNITY SERVICE

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### Editorial Assistant

*2014 - Present*

Cambridge Journal of Natural Language Engineering

### Organising Committee Member

- Summer School on Deep Learning in NLP (DLinNLP), Varna, Bulgaria *29-30 August 2019*
  - I will be an instructor for a practical coding session on sequence labelling and multi-task learning
- EUROPHRAS 2017, London, UK *13-14 November 2017*
- Student Research Workshop, held in conjunction with EUROPHRAS 2017, London, UK.

### Teaching Assistant

*Fall 2016*

7LN001 Python Programming, University of Wolverhampton

### Programme Committee Member & Reviewer

RANLP 2019, EUROPHRAS 2019, JNLE, SemEval 2019 & 2018, RANLP 2017, SLSP 2017, CICLing 2017, RANLP 2015, AISP 2012

## SELECTED PUBLICATIONS

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**Bridging the Gap: Attending to Discontinuity in Identification of Multiword Expressions**, O. Rohanian, **S. Taslimipoor**, S. Kouchaki, L. A. Ha, R. Mitkov, *accepted for publication in NAACL-HLT*, 2019.

**Identification of multiword expressions: A fresh look at modelling and evaluation**, **S. Taslimipoor**, O. Rohanian, R. Mitkov, A. Fazly. In *Multiword expressions at length and in depth. Extended papers from the MWE 2017 workshop*, Language Science Press, 2018.

**Wolves at SemEval-2018 Task 10: Semantic Discrimination based on Knowledge and Association**, **S. Taslimipoor**, O. Rohanian, L. A. Ha, G. Corpas, R. Mitkov. In *SemEval*, 2018.

**Investigating the opacity of verb-noun multiword expression usages in context**, **S. Taslimipoor**, O. Rohanian, R. Mitkov, and A. Fazly, in *proceedings MWE@EACL*, 2017.

**Bilingual Contexts from Comparable Corpora to Mine for Translations of Collocations**, **S. Taslimipoor**, R. Mitkov, G. Corpas, A. Fazly, in *CICLing*, 2016.

**Using Noun Similarity to Adapt an Acceptability Measure for Persian Light Verb Constructions**, **S. Taslimipoor**, A. Fazly and A. Hamzeh: In *LREC'12*, 2012.