

# DR. SHAFQAT MUMTAZ VIRK

0000 · (0)00 · 0000 ◇ virk.shafqat@gmail.com ◇ <http://shafqatvirk.github.io/>

IRIT, University Paul Sabatier, 118 Route de Narbonne F-31062 TOULOUSE CEDEX 9, France

## EDUCATION

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### Post-Doctorate

*November 2014 - onward*

Major in Computational Semantics  
IRIT Lab, Paul Sabatier University, Toulouse, France

### MA in Linguistics: Language and Society

*September 2014 - Onward  
(In Progress...)*

Malmö University, Malmö, Sweden

### Post-Doctorate

*July 2013-August 2014*

Major in Computational Semantics  
Academia Sinica, Taiwan

### PhD in Computing Science

*April 2009-June 2013*

Major in Computational Linguistics  
University of Gothenburg, Sweden

### Licentiate in Applied Information Technology

*April 2009 - January 2012*

Major in Computational Linguistics  
University of Gotheburg, Sweden

### MS in Applied Information Technology

*September 2005 - January 2007*

Major in Intelligent Systems Design  
Chalmers University of Technology, Sweden

### M.Sc in Computer Science

*September 1999 - August 2001*

Gomal University, Pakistan

## PUBLICATIONS

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1. Lun-Wei Ku, **Shafqat Mumtaz Virk**, and Yann-Huei Lee, *A Dual-Layer Semantic Role Labeling System*, Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL-IJCNLP 2015) System Demonstrations, July 26-31, 2015, Beijing, China. – to appear
2. Yann-Huei Lee, **Shafqat Mumtaz Virk**, and Lun-Wei Ku, *Recognizing Textual Entailment using Lexical, Syntactical, and Semantic Information*, The 11<sup>th</sup> NTCIR Conference, December 9-12, 2014, National Center of Sciences, Tokyo, Japan
3. **Shafqat Mumtaz Virk**, K.V.S Prasad and Aarne Ranta, *Developing an interlingual translation lexicon using WordNets and Grammatical Framework*, The 5<sup>th</sup> Workshop on South and Southeast Asian Natural Language Processing (WSSANLP) co-located with COLING 2014, 23-29 August, 2014 Dublin, Iceland.
4. **Shafqat Mumtaz Virk**, Yann-Huei Lee and Lun-Wei Ku, *Sinica Semantic Parser for ESWC'14 Concept-Level Semantic Analysis Challenge*, 11<sup>th</sup> Extended Semantic Web Conference, 2014 (ESWC'14): The Concept-Level Sentiment Analysis Challenge, Crete, Greece. 25-29 May, 2014 {Got third position }
5. PhD. Thesis: *Computational Linguistics Resources for Indo-Iranian Languages*, ISBN 978-91-628-8706-3, University of Gothenburg, Sweden

6. Olga Caprotti, Aarne Ranta, Krasimir Angelov, Ramona Enache, John Camilleri, Dana Danne lls, Gre goire De trez, Thomas Hallgren, K.V.S. Prasad, and **Shafqat Virk**, *High-Quality Translation: MOLTO Tools and Applications*, Pages 15-16 Proceeding of The Fourth Swedish Language Technology Conference Lund, October 24-26, 2012
7. K.V.S. Prasad and **Shafqat Mumtaz Virk**, *Computational evidence that Hindi and Urdu share a grammar but not the lexicon*, 3rd Workshop on South and Southeast Asian Natural Language Processing (WSSANLP) collocated with COLING 12, India.
8. **Shafqat Mumtaz Virk** and Elnaz Abolahrar, *An Open Source Persian Computational Grammar* Proceedings of the Eight International Conference on Language Resources and Evaluation (LREC'12) 23-25 May 2012, Istanbul, Turkey
9. **Shafqat Mumtaz Virk**, Muhammad Humayoun, Aarne Ranta, *An Open Source Punjabi Resource Grammar*, Proceedings of the Recent Advances in Natural Language Processing (RANLP), 12-14 September 2011, Hissar Bulgaria.
10. **Shafqat Mumtaz Virk**, Muhammad Humayoun, Aarne Ranta, *An Open Source Urdu Resource Grammar*, Proceedings of the 8th Workshop on Asian Language Resources, pages 153160, Beijing, China, 21-22 August 2010. (c) 2010 Asian Federation for Natural Language Processing
11. **Shafqat Mumtaz virk**, Muhammad, A., Martinez-Enriquez, A.M., *Fault Prediction Using Artificial Neural Network and Fuzzy Logic*, 7th Mexican International Conference on Artificial Intelligence (MICAI 2008), p.p. 149-154 ISBN: 978-0-7695-3441-1, October 27-31,2008 Mexico.
12. **Shafqat Mumtaz virk**, Muhammad, A., Martinez Enriquez A.M., Escalada I.G., *Breakdown Prediction of Different Components of Robotics*, International Symposium on Intelligent Information Technology Applications (IITA 2008), vol.3 p.p. 565-569, ISBN: 978-0-7695-3497-8, 21-22 December 2008, Shanghai China.
13. Licentiate Thesis: *Computational Grammar Resources for Indo-Iranian Languages*, University of Gothenburg, Sweden, ISSN 1651-4769;9
14. M.Sc Thesis: *Vehicle Breakdown Prediction System*, VOLVO IT, Sweden

## SYSTEMS, TOOLS, AND RESOURCES

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**Sinica Semantic Role Labeling (SRL) System (Chinese)**

<http://doraemon.iis.sinica.edu.tw/srl-webapp/>

**Sinica Semantic Role Labeling (SRL) System (English)**

[http://doraemon.iis.sinica.edu.tw/srl-concept/srl\\_english.html](http://doraemon.iis.sinica.edu.tw/srl-concept/srl_english.html)

**Sinica Semantic Parser**

<http://doraemon.iis.sinica.edu.tw/srl-concept/>

**Resource Grammars of Hindi, Urdu, Punjabi, Sindhi, Persian, and Nepali**

<http://www.grammaticalframework.org/>

## TECHNICAL STRENGTHS

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**Computer Languages**

Python, Haskell, C/C++, PHP, HTML, Shell Scripting, JAVA

**Tools**

Grammatical Framework (<http://www.grammaticalframework.org/>), NLTK

**Databases**

MySQL

## TEACHING EXPERIENCE

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**Department of Computer Science & Engineering, University of Engineering and Technology, Lahore Pakistan**

*Assistant Professor*

*July 2007 - Onwards*

**Department of Computer Science, GIFT University, Gujranwala Pakistan**

*Assistant Professor*

*February 2007 - July 2007*

**Department of Computer Science, Punjab Group of Colleges, Gujranwala Pakistan**

*Lecturer*

*September 2001 - January 2005*

**Department of Computer Science, Asian College of Commerce and Computer Science, Gujranwala Pakistan**

*Lecturer*

*August 2000 - September 2001*

## **DEVELOPMENT EXPERIENCE**

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**Mascom Software House, Gujranwala Pakistan**

*Developer*

*October 2003 - October 2004*

## **ADMINISTRATIVE EXPERIENCE**

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**Head of the Computer Science Department**

*Punjab Groupe of Colleges*

*January 2003 - January 2005*

**Controller of Examination**

*Punjab Groupe of Colleges*

*September 2003 - January 2005*

**Member of Course Quality Assurance Committee**

*University of Engineering and Technology*

*January 2008 - March 2009*

## **REFERENCES**

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**Prof. Aarne Ranta**

Department of Computer Science and Engineering

Chalmers University of Technology and University of Gothenburg

S-412 96 Göteborg, Sweden

Telephone: +46-(0)31-772 10 82

Email: aarne@chalmers.se

**Prof. K.V.S. Prasad**

Department of Computer Science and Engineering

Chalmers University of Technology and University of Gothenburg

S-412 96 Göteborg, Sweden

Telephone: +46-(0)730 794 361

Email: prasad@chalmers.se

**Ku, Lun-Wei**

Institute of Information Science (IIS), Academia Sinica

No 128, Academia Road, Section 2

Nankang, Taipei 11529, Taiwan

Tel: +886-2-2788-3799 Ext. 1808

Fax: +886-2-2782-4814

Email: lwkuat@iis.sinica.edu.tw