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Born: In February 08, 1978 at D.G.Khan, Pakistan.  
Citizenship: Pakistan

#### **Education:**

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| 2014 | PhD in Computational Linguistics, University of Konstanz, Germany                            |
| 2010 | MS in Computer Science, National University of Computer & Emerging Science, Lahore, Pakistan |
| 2002 | M.Sc. in Computer Science, Bahauddin Zakariya University, Multan, Pakistan                   |
| 1999 | B.Sc., Bahauddin Zakariya University, Multan, Pakistan                                       |

#### **Employment:**

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|--------------|---|
| 2016-Current | Assistant Professor in the Faculty of Computer and Information Systems, Islamic University, Madinah, Saudi Arabia |
| 2014-2016    | Assistant Professor in Computer Science & IT, University of Sargodha, Sargodha, Pakistan                          |
| 2013-2014    | HEC Scholar, University of Konstanz, Konstanz, Germany  |
| 2013-2013    | DAAD Research Assistantship, University of Konstanz, Konstanz, Germany  |
| 2011-2014    | Research & Teaching Assistant, Department of Computational Linguistics, University of Konstanz, Konstanz, Germany |
| 2003-2014    | Lecturer (BS-18) in Computer Science & IT, University of Sargodha, Sargodha, Pakistan                             |
| 2009-2009    | Instructor (part time), University College of Agriculture, University of Sargodha, Sargodha, Pakistan             |
| 2005-2006    | Instructor (part time), Department of Business Administration, University of Sargodha, Sargodha, Pakistan         |
| 2004-2006    | Project Director of HEC sponsored project (Strengthening of IT Labs), University of Sargodha, Sargodha, Pakistan  |
| 2003-2007    | In-charge, Department of Computer Science & IT, University of Sargodha, Sargodha, Pakistan                        |
| 2003-2007    | Coordinator, Department of Computer Science & IT, University of Sargodha, Sargodha, Pakistan                      |
| 2003-2005    | Web Developer, University of Sargodha, Sargodha (Voluntarily)   |
| 2003-2005    | Instructor (part time), Department of Psychology, University of Sargodha, Sargodha, Pakistan                      |

- 2003-2005 Instructor (part time), Department of Education, University of Sargodha, Sargodha, Pakistan
- 2001-2002 Lecturer, Computer Science, Govt. College, Dera Ghazi Khan, Pakistan

**Research Work/Publication:**

- 2016 Mango Types Classification by Texture and Shape Features, Sindh University Research Journal, ISSN: 1813-1743, Vol 48, No. 3, (Accepted) **(HEC X Category Journal)**
- 2016 Semi-Semantic Annotation: A guideline for the URDU.KON-TB Treebank part of speech annotation, Pakistan Journal of Life and Social Sciences, ISSN: 1727-4915, (Submitted) **(ISI 2016 Journal Citation Reports®, Thomson Reuters, Impact Factor 1.0290)**
- 2016 Reduced Solution Set Shortest Path Problem: Capton Algorithm With Special Reference to Dijkstra's Algorithm, Malaysian Journal of Computer Science, University of Malaya (Passed in all reviews except the in process last one review) **(ISI 2014 Journal Citation Reports®, Thomson Reuters, Impact Factor: 0.5)**
- 2015 [Comparative Study of Feature Selection Approaches for Urdu Text Categorization](#), Malaysian Journal of Computer Science (MJCS), Vol.28, No. 2, PP.93-109, University of Malaya **(ISI 2014 Journal Citation Reports®, Thomson Reuters, Impact Factor: 0.5)**
- 2015 [Evaluation of Feature Selection Approaches for Urdu Text Categorization](#), International Journal of Intelligent Systems and Applications (IJISA), Vol.7, No. 6, PP.33-40, DOI: 10.5815/ijisa.2015.06.03, MECS Publisher, HK. **(Index Copernicus Value (ICV): 7.77)**
- 2015 [Morphologically rich Urdu grammar parsing using Earley algorithm](#), Natural Language Engineering (NLE), Vol.21(2), PP.1-36, ISSN: 1351-3249, DOI: 10.1017/S1351324915000133, Cambridge University Press, UK. **(ISI 2013 Journal Citation Reports®, Thomson Reuters, Impact Factor: 0.463)**
- 2015 [A Stochastic Prediction Interface for Urdu](#), International Journal of Intelligent Systems and Applications (IJISA), Vol.7, No.1, PP.94-100, HK, DOI: 10.5815/ijisa.2015.01.09, MECS Publishers, HK. **(Index Copernicus Value (ICV): 7.77)**
- 2014 [Syntactic and Semantic Analysis of Urdu Modal Verbs using XLE Parser](#). International Journal of Computer Applications, Vol. 107(10), pp. 39-46, Published by Foundation of Computer Science, New York, USA. **(Foundation of Computer Science, Impact Factor: 0.821)**
- 2014 [Building Computational Resources: The URDU.KON-TB Treebank and the Urdu Parser](#), Doctoral Dissertation, University of Konstanz, Germany. **(Available at KOPS Publisher)**
- 2014 [Exploiting Language Variants Via Grammar Parsing Having Morphologically Rich Information](#). In Proceedings of the EMNLP'2014 Language Technology for Closely Related Languages

and Language Variants, Association of Computational Linguistics, P 35-45, Qatar. (ISI Indexed Conference Available at No. 17810, Computing Research and Education, Core, Rank: A)

- 2014 [Semi-Semantic Part of Speech Annotation and Evaluation](#). In Proceedings of ACL 8th Linguistic Annotation Workshop (COLING), Association of Computational Linguistics, P 75-81, Dublin, Ireland. (ISI Indexed Conference Available at No. 25663, Computing Research and Education, Core, Rank: A+)
- 2014 [A Computational Classification of Urdu Dynamic Copula Verb](#). International Journal of Computer Applications (IJCA), Vol. 85(10), P 1-12, Published by Foundation of Computer Science, New York, USA. (Foundation of Computer Science, Impact Factor: 0.821)
- 2012 [Building a Hierarchical Annotated Corpus of Urdu: The URDU.KON-TB Treebank](#). Lecture Notes in Computer Science (LNCS). Vol. 7181(1), P 66-79, ISSN 0302-9743, Springer-Verlag, Germany Berlin/Heidelberg. (ISI 2002 Journal Citation Reports®, Thomson Reuters, Impact Factor: 0.51, 2013 SCImago Journal Rank (SJR) value: 0.31)
- 2012 [Building a Hierarchical Annotated Corpus of Urdu: The URDU.KON-TB Treebank](#). In Proceedings of 13th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing), India. (ISI Indexed Conference Available at No. 11166, Computing Research and Education, Core, Rank: B). (This same paper was then selected for publication in LNCS).
- 2010 [Language Identifier for Languages of Pakistan Including Arabic and Persian](#). International Journal of Computational Linguistics (IJCL), Vol. 01(03), P 27-35, ISSN 2180-1266. (Refereed Journal)
- 2009 [Development of Tree-bank based probabilistic grammar for Urdu Language](#). International Journal of Electrical & Computer Science (IJECS), Vol. 09(09), P 231-235, ISSN 2077-1231. (Impact Factor Calculated Through Google Scholar Citation Reports By The Journal: 1.816)
- 2009 [Lexical functional grammar for Urdu modal verbs](#). In Proceedings of 5th IEEE International Conference on Engineering and Technology (ICET), Pakistan. (ISI Indexed Conference Available at No. 73675)
- 2009 [Probabilistic Parsing](#). In National University of Computer & Emerging Sciences (NUCES), Lahore, Pakistan (MS Research) (Available in the Library of NUCES)
- 2002 [Online Virtual University](#). In Bahauddin Zakariya University (BZU), Multan, Pakistan (M.Sc. Dissertation) (Available in the Library of BZU).

#### **Certificates:**

- 2013 Seminar on Text Processing With Perl with Dr. Cerstin Mahlow, University of Konstanz, Germany
- 2012 Research Colloquium With Prof. Dr. Miriam Butt, University of Konstanz, Germany
- 2012 Seminar on Grammar Interfaces With Prof. Dr. Miriam Butt, University of Konstanz, Germany

- 2012 Conference on Language and Technology, UET, Lahore, Pakistan
- 2012 A1/2 Deutsche Language Course, University of Konstanz (UOK), Germany
- 2011 A1/1 Deutsche Language Course, University of Konstanz, Germany
- 2011 Doctoral Research Colloquium, UOK, Germany
- 2011 Seminar on Grammar Development With Prof. Dr. Miriam Butt, UOK, Germany
- 2011 Seminar on German Higher Education System and Financial Assistance, University of Konstanz, Germany
- 2010 IELTS English Language Proficiency Certificate
- 2006 Training Course, Proficiency in English Language, Department of English, University of Sargodha (UOS), Sargodha, Pakistan (PK)
- 2006 Training Course, Staff Development Course, National Academy of Higher Education, Islamabad, PK
- 2006 Workshop on Working with Industry, National University of Science and Technology, Asia Link (EuropeAid), Beijing Institute of IT, NIIT, University of the West England, and University of South Brittany.
- 2005 Training program of Research, Graphical and Statistical Analysis of Data Using SPSS and MiniTab, UOS, PK
- 2004 Seminar on Evaluation in Semester System, Pre-requisite and Norms, UOS, Sargodha, PK
- 2004 Seminar on Digital Library in Universities, Higher Education Commission (HEC), Islamabad, Pakistan
- 2004 Seminar on Curriculum Development, University of Punjab, PK.
- 2001 Software on Development & Solution Provider, DG Institute of Information Technology, Dera Ghazi Khan, PK.
- 2001 Tutorial of Data Base Management System, Oracle, BZU, PK.
- 2000 Seminar on Java Technology at Sun Corporation, Multan, PK

**Award Letters:**

- 2014 Letter of Appreciation By The Rector, University of Konstanz, Germany on In Time Successful Completion of Doctoral Studies
- 2007 Letter of Appreciation on Good Management by Prof. Dr. Riaz-ul-Haq Tariq, Vice Chancellor, University of Sargodha, Sargodha, Pakistan
- 2006 Letter of Appreciation on Excellent Electronic Communication on Governor's Event by Prof. Dr. Riaz-ul-Haq Tariq, Vice Chancellor, University of Sargodha, Sargodha, Pakistan

2003 Letter of Appreciation on First Computerized Declaration of Graduate Result by Prof. Dr. Riaz-ul-Haq Tariq, Vice Chancellor, University of Sargodha, Sargodha, Pakistan

**Sports:**

1996-1997 Certificate, Runner-up in Inter-Collegiate Hockey Tournament, Multan, Pakistan

1994-1995 Certificate, National Punjab Championship, DGK, PK

1994-1995 Certificate, Winner, Inter Collegiate Hockey Championship, DGK

1994 Certificate, Winner in 2<sup>nd</sup> UBL School's Hockey Championship, Dera Ghazi Khan, Pak

**Software and Resource Development:**

2016 A new dynamically designed website for the UOS

2014 Automatic Earley Based Parser for Parsing Urdu, UOK, Germany

2013 Automatic Context Free Grammar Extractor from Annotated Data, UOK, Germany

2013 Statistical Tool for Evaluation of Annotated Corpus, UOK, Germany

2012 Development of the URDU.KON-TB Treebank for Urdu, UOK, Germany

2010 First Urdu Treebank (NU-FAST) along with a Parser, NUCES, PK

2003 Admission System at University, UOS, PK

2003 Examination System at University, UOS, PK.

2003 University of Sargodha Website, UOS, PK

2002 Online Virtual University, BZU, Multan. PK

2002 Sales & Purchase System, Al-Abbas Oil Trader, DGK, PK

2002 Accounting System, Jeeway Pakistan Chappal House, DGK, PK

2002 Online Sale & Accounting System, D.G. Hotel, DGK, PK

2002 Ledger System, Mian Javed & Company, DGK, PK

2001 Punjab Information Technology Board Library, PITB, Lahore, PK

2003-2005 All sorts of Advertisement, UOS, PK

**Area of Interest:**

NLP/CL Natural Language Processing/Computational Linguistics

Others Artificial Intelligence, Text Processing, Information Retrieval, Machine Learning, Algorithms, statistics, probabilistic Models,

Theory of Computations, etc.

**Languages Knowledge:**

Expert	Urdu, Punjab, Saraiki, & Hindko
Professional	English
Beginner	Arabic, Deutsche (A1/1&2), Persian

**Membership of Bodies:**

2003-Current	Senior Member Board of Studies, Department of Computer Science & IT, University of Sargodha, Sargodha, Pakistan
2006-2008	Member of Board of Faculty for Developing Modern Curriculum at Universities of Pakistan, Punjab University, Lahore, PK
2004-2007	Member of Selection Committee for appointment of system assistant and laboratory technicians, office orders UOS/Admin/4754.
2004-2007	Convener of Program Advisory Committee, Department of Computer Science, office orders UOS/Admin/513
2004-2007	Member of Selection Committee for appointment of system administrator, web developer, network administrator and PC-technicians, office orders UOS/Admin/2935
2004-2007	Convener of Purchase Committee, Department of Computer Science & IT, office orders UOS/Admin/3500.
2005-2007	Secretary of Technical Committee, Strengthening of IT Labs Project, office orders UOS/Admin/551
2005-2007	Member of Technical Committee, Computerization and Networking Enhancement Project, University of Sargodha, office orders UOS/Admin/550
2003-2007	Member of Investigation Team to investigate NOBEL institute, Govt. College, Sargodha.
2003-2007	Member of Inspection Committee for electronic equipment, University of Sargodha, Sargodha, PK