

CURRICULUM VITAE

WAHAB KHAN

PERSONAL DETAIL

Wahab Khan

Department of Computer
Science,

University of Computer
Science,

Khyber Pakhtunkhwa,
Pakistan

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Wahab.Khan@ustb.edu.pk ,

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Twitter: @DrWahab_Khan

GitHub:

<https://github.com/MyKhan>

Google Scholar:

<https://scholar.google.com/citations?user=tE5kDFwAAAAJ&hl=en>

Research Gate:

https://www.researchgate.net/profile/Wahab_Khan4

LinkedIn:

<https://www.linkedin.com/in/wahab-khan-phd-6a066999/>

YouTube: @Dr-Wahab_Khan-AI-Mualim

RESEARCH INTERESTS

- Large Language Models
- Transformers
- Data Mining - Artificial Intelligence (Machine Learning and Deep Learning)
- Natural Language Processing - Data Science
- Named Entity Recognition in Low Resources Languages
- Part of Speech Tagging in Low Resources Languages
- Word tokenization
- Sentiment Analysis in Low Resources Language
- AI for Health Care

TECHNICAL SKILLS

- Python
- C#
- Java
- Oracle

RESEARCH EXPERIENCE

Since 10/2020	Lecturer at the Department of Computer Science, University of Computer Science, Khyber Pakhtunkhwa, Pakistan
2016-2018	Research Associate at Department of Computer Science and Software Engineering, Faculty of Basics and Applied Sciences, International Islamic University, Islamabad, Pakistan
Spring 2014	PhD Student at Department of Computer Science and Software Engineering, Faculty of Basics and Applied Sciences, International Islamic University, Islamabad

RESEARCH PROJECTS

10/2020
09/2021 *Deep Learning-based Fake News Identification/classification system on social media platforms for low resources languages*
Start-up research grant program (SRGP) Funded by the Higher Education Commission, Pakistan (PI)

ACADEMIC QUALIFICATION

02/2012 **Ph.D. in Computer Science**
02/2019 Department of Computer Science and Software Engineering,
International Islamic University, H-10 Islamabad.
Division 1st (CGPA 3.41, 74.4%)
Thesis Title: Generic Urdu NLP Framework for Text Analysis: Hybridization of Machine Learning and Heuristics

10/2006 **MS in Computer Science**
05/2009 University of Science and Technology, Bannu, Pakistan
Division 1st (CGPA 3.10, 73.4%)

2002 **BS (CS) 4 years in Computer Science**
2006 Gomal University Dera Ismail Khan, Pakistan
Division 1st (64.82%)

1999 **Higher Secondary School Certificate (F. Sc Premedical)**
2001 Board of Intermediate and Secondary Education, Bannu, Pakistan
Division: 1st (68.72%)

1996 **Secondary School Certificate (SSC) Science**
1998 Board of Intermediate and Secondary Education, Bannu, Pakistan
Division: 1st (66.47%)

PUBLICATIONS

Google Scholar: Publication 27: Citations: 940, h-index:13, i-10-index:16

Research Gate: RG Score: **709.5** Research Interest Score, h-index:12

Journal Publication

- 1. Exploring the frontiers of deep learning and natural language processing: A comprehensive overview of key challenges and emerging trends**
Wahab Khan, Ali Daud, Khairullah Khan, Shakoor Muhammad , Rafiul Haq
Natural Language Processing Journal Volume 4, September 2023, 100026
- 2. Enhancing Immoral Post Detection on Social Networks Using Knowledge Graph and Attention-Based BiLSTM Framework, Bibi Saqia; Khairullah Khan; Atta Ur Rahman; Sajid Ullah Khan; Mohammed Alkhowaiter; Wahab Khan. IEEE Access VOLUME 12, 2024**
- 3. An Automated Approach to Identify Sarcasm in Low-resource Language**

4. **A novel transformer attention-based approach for sarcasm detection**, Expert Systems Shumaila Khan, Iqbal Qasim, Wahab Khan, Khursheed Aurangzeb, Javed Ali Khan, Muhammad Shahid Anwar, , <https://doi.org/10.1111/exsy.13686>
5. **Knowledge-based Word Tokenization System for Urdu**
Asif Khan, Khairullah Khan, Wahab Khan1, Sadiq Nawaz Khan, Rafiul Haq
Journal of Informatics and Web Engineering. Vol. 3 No. 2 (June 2024)
6. **Named Entity Recognition Using Conditional Random Fields**
Wahab Khan , Ali Daud, Khurram Shahzad , Tehmina Amjad , Ameen Banjar and Heba Fasihuddin (Appl. Sci. 2022, 12, 6391. <https://doi.org/10.3390/app12136391>)
7. **Deep Recurrent Neural Networks with Word Embeddings for Urdu Named Entity Recognition.**
Wahab Khan, Ali Daud, Fahd S. Alotaibi , Sachi Arafat, Naif Aljohani, ETRI journal
8. **Part of Speech Tagging in Urdu: Comparison of Machine and Deep Learning Approaches**
Wahab Khan, Ali Daud, Khairullah Khan, Jamal Abdul Nasir, Naif Aljohani, Fahd S. Alotaibi **IEEE Access, 2019, Vol.7, pp 38918-38936**
9. **Part of Speech Tagging in Urdu using Conditional Random Fields**
Wahab Khan, Ali Daud, Jamal Abdul Nasir, Sachi Arafat, Naif Aljohani, Fahd S. Alotaibi
Language Resources and Evaluation, DOI: <https://doi.org/10.1007/s10579-018-9439-6>
Impact Factor:0.65
10. **Urdu language processing: a survey**
Ali Daud, **Wahab Khan**, D Che
Artificial Intelligence Review 47 (3), 279-311
Impact factor: 2.6
11. **A survey on the state-of-the-art machine learning models in the context of NLP**
Wahab Khan, Ali Daud, JA Nasir, Tehmina Amjad
Kuwait journal of Science 43 (4) **Impact Factor: 0.60**
12. **Urdu word segmentation using machine learning approaches**
Sadiq Nawaz, Khairullah Khan , **Wahab Khan**
Article Published in International Journal of Advanced Computer Science and Applications (IJACSA), Volume 9 Issue 6, 2018. (ISI Indexed)
13. **Impact of Anaphora Resolution on Opinion Target Identification**
BiBi Saqia, Khairullah Khan, Aurangzeb Khan, **Wahab Khan**, Fazali Subhan, Muhammad Abid
Article Published in International Journal of Advanced Computer Science and Applications (IJACSA), Volume 9 Issue 6, 2018. (ISI Indexed)
14. **Urdu Sentiment Analysis**
Khairullah Khan, **Wahab Khan**, Atta ur Rahman, Aurangzeb Khan, Asfandyar Khan, Ashraf Ullah Khan, BiBi Saqia
Article Published in International Journal of Advanced Computer Science and Applications (IJACSA), Volume 9 Issue 9, 2018. (ISI Indexed)

15. Sentence Level Domain Independent Opinion and Targets Identification in Unstructured Reviews

Kahirullah Khan, **Wahab Khan**

Computers 2018, 7, 70.

16. Unsupervised Machine Learning based Documents Clustering in Urdu

Atta Rahman, Khairullah Khan, Wahab Khan, Aurangzeb Khan, Bibi Saqia

EAI Endorsed Transactions on Scalable Information Systems 06 2018 - 12 2018 | Volume 5 | Issue 19

17. Supervised Urdu Word Segmentation Model Based on POS Information

Sadiq Nawaz Khan, Khairullah Khan, **Wahab Khan**

EAI Endorsed Transactions on Scalable Information Systems 06 2018 - 12 2018 | Volume 5 | Issue 19

18. Empirical Analysis of Recent Advances, Characteristics and Challenges of Big Data

Burhanullah Khattak, Aurangzeb Khan, Khairullah Khan, **Wahab Khan**, Muhammad

Kamran, Muhammad Fahad , *EAI Endorsed Transactions on Scalable Information Systems* 06

2019 – 12

19. Urdu named entity recognition system using deep learning approaches

Rafiul Haq, Xiaowang Zhang, **Wahab Khan**, Zhiyong Feng

The Computer Journal

20. Industrial optimization using three-factor Cobb-Douglas production function of non-linear programming with application.

Shakoor Muhammad , Fazal Hanan , Sayyar Ali Shah , Aihua Yuan , **Wahab Khan** , Hua Sun , AIMS Mathematics 2023, Volume 8, Issue 12: 29956-29974. doi: 10.3934/math.20231532

21. A Review of Urdu Sentiment Analysis with multilingual Perspective: A case of Urdu and Roman Urdu Language.

Ihsan Ullah Khan, Aurangzeb Khan, **Wahab Khan**, Mazliham Mohd Su'ud, Muhammad Mansoor Alam, Fazli Subhan and Muhammad Zubair Asghar

Computers 2022, 11(1), 3; <https://doi.org/10.3390/computers11010003>

22. A Framework for Multilingual Sentiments Extraction and Analysis of Online Review and Comments

Ihsanullah Khan, Aurangzeb Khan, Mazliham Mohd Su'ud, Muhammad Mansoor Alam, **Wahab Khan**, Syed Khalid Shah, Khairullah Khan, *International Journal of Computational Intelligence in Control*, Vol.14 No. 1 June, 2022

23. Deep Learning-Based Identification of Immoral Posts on Social Media Using Fine-tuned Bert Model, *International Journal of Data Informatics and Intelligent Computing*, Bibi Saqia, Khairullah Khan, Atta Ur Rahman, Wahab Khan, 2025

24. Ethnic-Specific Mutation Frequency Databases: A Systematic Review of Genetic Diversity and Its Implications for Genetic Disorders, Shumaila, Iqbal Qasim, Wahab Khan, *JMIR Bioinformatics and Biotechnology* 2025

25. Paraphrase detection for Urdu language text using fine-tune BiLSTM framework, *Scientific Reports* , Muhammad Ali Aslam, Khairullah Khan, Wahab Khan, Sajid Ullah Khan, Abdullah Albanyan & Shabbab Ali Algamdi, <https://doi.org/10.1038/s41598-025-93260-6> 2025

(a) Conference Publication

- Named Entity Dataset for Urdu Named Entity Recognition Task
Wahab Khan, Ali Daud, JA Nasir, Tehmina Amjad
6th International Conference on language and Technology (CLT)
- Query based information retrieval and knowledge extraction using Hadith datasets
Muhammad Ahsan, Hikmat Ullah Khan, Zahoor-ur-Rehman, **Wahab Khan**
13th International Conference on Emerging Technologies (ICET)

EXPERIENCE

Since	Working as a Lecturer at the department of Computer Science University of
September,2023	Science and Technology Bannu Pakistan
2021-2023	Worked as an Assistant Professor(Contact) at the University of Science and Technology Bannu Pakistan
2018-2020	Worked as an Assistant Programmer at the University of Science and Technology Bannu Pakistan
2015-2018	Visiting Faculty member at the department of Computer Science and software engineering, international Islamic University Islamabad, Pakistan
2009-2015	Worked as an Assistant Programmer at the University of Science and Technology Bannu Pakistan
2007-2009	Worked as Lecturer at Bannu Model School and College

PHD STUDENT'S SUPERVISIONS

- **Rafiul Haq**, a PhD Scholar at Tianjin University Tianjin, China. Dissertation Title “Urdu named entity recognition system using deep learning approaches” Co-Supervisor, December 2020
- **Ms Shumaila**, A PhD scholar at University of Science and Technology Bannu, Dissertation Title “Towards Computational Sarcastic Tweets Identification: An Open-Source Dataset and Developmental Framework” Co-Supervisor, October 2021

MS STUDENT SUPERVISION

- **Sadiq Nawaz**, Urdu word segmentation using machine learning approaches. Co Supervisor
- **Atta ur Rehman**, Unsupervised Machine Learning based Documents Clustering in Urdu.
Co Supervisor
- **Bibi Saiqa**, Impact of Anaphora Resolution on Opinion Target Identification. Co supervisor

TRAINING, PRESENTATION, WORKSHOP AND CONFERENCES ATTENDED

1. Completed a training course on “**Role of ICT in Research and Database Development**” Organized by AHK National Centre for Rural Development & MA, Ministry of Local Govt., & Rural Development Govt: of Pakistan, Islamabad
2. Participated and Presented research topic in PhD symposium held on December 13th,2014 organized by Department of Computer Science Mohammad Ali Jinnah University, Islamabad
3. Attended the Workshop on “ **Web Mining and Semantics**” held on May 30,2015 Awarded by Centre for Distributed & semantic Computing, Department of Computer Science Mohammad Ali Jinnah University, Islamabad
4. Participated and Presented a research paper title “**Named Entity Dataset for Urdu Named Entity Recognition Task**” in 6th International conference on language and Technology conferences organized by Society for Natural Language Processing (SNLP) in collaboration with Center for Language Engineering (CLE), Al-Khawarizmi Institute of Computer Science (KICS), University of Engineering and Technology (UET), Lahore, Pakistan
5. Completed Training National Faculty Development Program 2020 (HEC July)

COURSERA CERTIFICATE COMPLETED

1. Machine Learning
2. Neural Networks and Deep Learning
3. Improving Deep Neural Networks: Hyper parameter tuning, Regularization and Optimization

SCHOLARSHIPS AND GRANTS

- Aailed Higher Education Commission Indigenous Scholarship for Ph.D. study at the department of Computer Science and Software Engineering, Islamabad Pakistan
- Awarded Start up Research Grant by HEC Pakistan

CONFERENCE ORGANIZATION EXPERIENCE

1. 1st International Conference on Recent Advances in Computing, AI, and Data Science (CAIDS-2023) (<https://www.caids.org.pk/index.php>)
 - Managed all correspondence with authors through Easy Chair Portal
 - Worked as a Reviewer for the said Conference.
 - Received shield and certificate as an organizer for all correspondence made with authors and participants.
2. 2nd International Conference on Recent Advances in Computing, AI, and Data Science (CAIDS-2024) (<https://www.caids.org.pk/index.php>)
 - Managed all correspondence with authors through Easy Chair Portal
 - Worked as a Reviewer for the said Conference.
 - Received shield and certificate as an organizer for all correspondence made with authors and participants.

References

- **Prof. Dr. Ali Daud**
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- **Dr. Jamal Abdul Nasir**
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University of Galway Ireland
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