Muhammad Yaseen Khan

Academic Curriculum Vitæ

Centre for Language Computing
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Educational Background

Ph.D.   Mohammad Ali Jinnah University, Karachi, 2018–cont'd. Advisor: Dr. Tafseer A. Khan
MS.SE   Karachi Institute of Economics & Technology, 2014–2015. Advisor: Dr. Khuram N. Junejo
BS.SE   Karachi University, 2007–2010. Advisors: Dr. Humera Tariq and Dr. Tahseen A. Jilani

Positions Held

Jan. 2017–Present	Senior Lecturer, Department of Computer Science, Faculty of Computing and Engineering, Mohammad Ali Jinnah University (MAJU), Karachi
Jan. 2019 – Present	AI/Software Developer, AskIQ
Jan. 2016–Mar. 2017	Data Scientist, Cubix Co.
June 2013–Dec. 2016	Lecturer, College of Computing and Information Sciences, Karachi Institute of Economics & Technology (KIET), Karachi
May 2012–June 2013	Software Engineer II, Mazik Global Technologies/ Microsoft Inc./ Tyler Technologies Inc.
Jan. 2011–Feb. 2012	Web and iOS Application Developer, Counterpoint/Qurtaba LLC
July. 2010–Dec. 2010	Web Developer, Revolutionary Technologies
Jan. 2010–June. 2010	Web Developer, Sprintech Solutions

Teaching

Fall 2019	CS6420 Applied Programming; CS1420 Object-Oriented Programming
Summer 2019	CS1410 Computer Programming; CS3110 Software Engineering
Spring 2019	CS6420 Applied Programming; CS6610 Information Retrieval Techniques (co-teach with Shaukat Wasi); CS2510 Data Structures and Algorithms;
Fall 2018	CS2510 Data Structures and Algorithms
Spring 2018	CS1410 Computer Programming
Fall 2017	CS1410 Computer Programming
Spring 2017	CS1410 Computer Programming; CS1420 Object-Oriented Programming; CS5339 Data Science Essentials
2013–2016	Courses taught to undergrad students at KIET in different semesters: Programming Fundamentals; Object-Oriented Programming; Data Structures and Algorithms; Database and Management Systems; Data Warehousing; Web Engineering; Network Programming; Software Engineering; Design and Analysis of Algorithms; Automata Theory; and Human-Computer Interaction

Conference and Workshop Committees

1. Organising committee, 1st International Conference on Data Sciences, MAJU, Karachi (2019)
2. Trainer, 1-Day Workshop on Data Science with Python, UBIT, Karachi University (2018)
3. Trainer, Hands-on Programming with Python, MAJU, Karachi (2018)
4. Trainer, Programming with Python, Combat:18, KIET, Karachi (2018)
5. Coach, ICPC 2015 @ NUCES-FAST, Lahore (2015)
6. Faculty head, CodeJam, PAF-KIET, Karachi (2015)
7. Faculty head, Combat: The Computing Battle 2017, KIET, Karachi (2014)
8. Coach, Startup-Weekend, IBA, Karachi (2012)

University Committees

1. QEC Self-Assessment Report (SAR) for undergraduate and graduate CS and SE programmes, MAJU, Karachi (2019)
2. External Course Review, KIET, Karachi (2019)
3. Internal Facilitator for NCEAC, MAJU, Karachi (2019)
4. Graduate Thesis Evaluation Committee, MAJU, Karachi (2018–present)
5. Examination Paper Moderation Committee, MAJU, Karachi (2018–present)
6. Academic Advisor, MAJU, Karachi (2017–persent)
7. Final Year Project Evaluation/Exhibition Committee, MAJU, Karachi (2017–present)
8. Founding Faculty Sponsor of ACM-MAJU Student Chapter, MAJU, Karachi (2017–present)
9. Admission Interview Committee, MAJU, Karachi (2017–present)
10. Credit Transfer Committee, MAJU, Karachi (2018–present)
11. Faculty Sponsor of ACM-KIET Student Chapter, KIET, Karachi (2013–2015)
12. Co-Head, Final Year Project Committee, KIET, (2013–2016)
13. Final Year Project Evaluation/Exhibition Committee, KIET, (2013–2016)

Boards

1. Member, Board of Studies, MAJU, Karachi (2017–2018)

Publications

Items are sorted chronologically in reverse order.

Refereed Journal Articles

1. "Combining Lexicon-Based and Machine Learning Techniques for Sentiment Analysis: A Hybrid Approach". Muhammad Yaseen Khan and Khurum Nazir Junejo. *IEEE Access.* Indexed in Clarivate Analytics' SCIE. JCR IF:4.09. *submitted.*
2. "Depressive Sentiment Analysis in Microblogs: A Machine Learning Approach". Shah Muhammad Emaduddin, Kamran Ahsan, Muhammad Yaseen Khan, and Sohaib Ahmed; *Interciencia*, volume 43, number 9, pages 0–0, 2019. Indexed in Clarivate Analytics' SCIE. JCR IF:0.28. *under review.*
3. "Sentiment Analysis of Product Reviews in the Absence of Labelled Data using Supervised Learning Approaches". Warqar Muhammad, Maria Mushtaq, Khuram Nazir Junejo, and Muhammad Yaseen Khan; *Malaysian Journal of Computer Science*, volume 32, number 4, pages 0–0, 2020. Indexed in Clarivate Analytics' SCI. JCR IF:0.7. *in press publication.*
4. "On Extraction of Event Information from Social Text Stream: An Unpretentious NLP Solution". Kanwal Iqbal, Muhammad Yaseen Khan, Shaukat Wasi, Shumaila Mahboob, and Tafseer Ahmed; *International Journal of Computer Science and Network Security*, volume 19, number 9, pages 121–131, 2019. Indexed in Clarivate Analytics' ESCI.
5. "A Novel Approach For Ontology-Driven Information Retrieving Chatbot For Fashion Brands". Aisha Nazir, Muhammad Yaseen Khan, Tafseer Ahmed, Syed Imran Jami, and Tafseer Ahmed; *International Journal of Advanced Computer Science and Applications*, volume 10, number 9, pages 546–552, 2019. Indexed in Clarivate Analytics' ESCI.
6. "Developing Disease Classification System based on Keyword Extraction and Supervised Learning". Muhammad Suffian, Muhammad Yaseen Khan, and Shaukat Wasi; *International Journal of Advanced Computer Science and Applications*, volume 9, number 9, pages 599–605, 2018. Indexed in Clarivate Analytics' ESCI.

Refereed Book Chapters

7. "Pseudo Transfer Learning by Exploiting Monolingual Corpus: An Experiment on Roman Urdu Transliteration". Muhammad Yaseen Khan and Tafseer Ahmed; in *Intelligent Technologies and Applications*, pages. 0–0, Nov. 2019, Springer-Verlag. *to appear.*
8. "Towards a Generic Approach for PoS Tag-wise Lexical Similarity of Languages". Muhammad Suffian Nizami, Muhammad Yaseen Khan and Tafseer Ahmed; in *Intelligent Technologies and Applications*, pages. 0–0, Nov. 2019, Springer-Verlag. *to appear.*

Refereed Conference Publications

9. "Discovering Lexical Similarity Through Articulatory Feature-based Phonetic Edit Distance". Tafseer Ahmed, Muhammad Suffian Nizami, Muhammad Yaseen Khan; in *Proceedings of the 12th Language Resources and Evaluation Conference*, Marseille, France, March. 2020. *submitted.*

10. "Urdu Sentiment Corpus (v1.0): Linguistic Exploration and Visualization of Labeled Dataset for Urdu Sentiment Analysis". Muhammad Yaseen Khan and Tafseer Ahmed; in *Proceedings of the 2nd IEEE International Conference On Information Science & Communication Technology*, Karachi, Pakistan. Feb. 2020. *submitted.*

11. "Character-Level Neural Machine Transliteration of Roman Pujabhi-Gurmukhi Script". Muhammad Suffian Nizami, Muhammad Yaseen Khan and Tafseer Ahmed; in *Proceedings of the 2nd IEEE International Conference On Information Science & Communication Technology*, Karachi, Pakistan. Feb. 2020. *submitted.*

12. "Pseudo Transfer Learning by Exploiting Monolingual Corpus: An Experiment on Roman Urdu Transliteration". Muhammad Yaseen Khan and Tafseer Ahmed; in *Proceedings of the 2nd International Conference on Intelligent Technologies and Applications*, Islamia University Bhawalpur, Pakistan. Springer, pages. 0–0, Nov. 2019.

13. "Towards a Generic Approach for PoS Tag-wise Lexical Similarity of Languages". Muhammad Suffian Nizami, Muhammad Yaseen Khan and Tafseer Ahmed; in *Proceedings of the 2nd International Conference on Intelligent Technologies and Applications*, Islamia University Bhawalpur, Pakistan. Springer, pages. 0–0, Nov. 2019.

14. "Practices for Achieving Accuracy in Software Costing and Estimation". Mohammad Ayub Latif, Muhammad Yaseen Khan, and Kashif Bashir; in *Proceedings of the 2nd International Conference on Computing & Information Sciences*, Karachi Institute of Economics and Technology, Karachi, Pakistan. Nov. 2018.

15. "Drive pattern analyzer using smartphones". Shumaila Mahboob, Kanwal Iqbal, Hira Farman, Muhammad Yaseen Khan, and Shaukat Wasi; in *Proceedings of the 13th IEEE International Conference on Emerging Technologies*, Capital University of Science and Technology, Islamabad, Pakistan. IEEE, pages 1-5, 2017.

16. "Harnessing English Sentiment Lexicons for Polarity Detection in Urdu Tweets: A Baseline Approach". Muhammad Yaseen Khan, Shah Muhammad Emaduddin, and Khurum Nazir Junejo; in *Proceedings of the 11th IEEE International Conference on Semantic Computing*, San Diago, USA. IEEE, pages. 242-24, 2017.

Conference and Workshop Attendee

1. 2nd International Conference on Intelligent Technologies and Applications, Bhahawalpur (2019)
2. 1st International Conference on Data Science, MAJU, Karachi (2019)
3. 2nd International Conference on Computing and Information Sciences, KIET, Karachi (2018)
4. HEC-NCEAC 3-Day Workshop on Data Science, Islamabad (2017)

Awards and Honours

1. Awardee of Dean's List 2014 and 2015 during MS.SE, KIET

Research Interests

Artificial Neural Networks/Deep Learning · Natural Language Processing · Information Extraction · Information Retrieval · Cognitive Computing · Affective Computing· Discourse Analysis · Computational Linguistics · Corpus Linguistics · Sociolinguistics · NLP for scared source Indic languages (specifically languages in Perso-Arabic scripts) · Emotion Detection and Sentiment Analysis in Text.

Skills

Computing	Python · Scikit-Learn · Kears · NLTK · NumPy · SciPy · Pandas · BeautifulSoup · MatPlotLib · SeaBorn · MatLab · Java2SE · C# · yEd · Git · Anaconda · PHP · JavaScript · MySQL · LATEX
Languages	English · Urdu · Sindhi · Punjabi · Hindi · Arabic · Persian/Farsi · Pushto

References

1. Dr. Asim Imdad Wagan, Professor and Dean FoC&E, MAJU, Karachi.
2. Dr. Muhammad Khalid Khan, Professor and Director CoCIS, PAF-KIET, Karachi.