Muhammad Yaseen Khan · محمد یاسین خان

Academic Curriculum Vitæ

Centre for Language Computing
Department of Computer Science
Mohammad Ali Jinnah University, Karachi
Pakistan

Tel: +92-332-3240104
Email: yaseenkhan.yzai@gmail.com
Skype: muhammad_yaseen_khan
URL: Google Scholar · ResearchGate · GitHub

Educational Background

Ph.D.   Mohammad Ali Jinnah University, 2018–cont'd. Advisors: Dr. Shaukat Wasi and Dr. Tafseer A. Khan

MS.SE   Karachi Institute of Economics & Technology, 2014–2015. Advisor: Dr. Khuram N. Junejo

BS.SE   University of Karachi, 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, Mohammad Ali Jinnah University, Karachi

Jan. 2019–2020 . . . .   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

Spring 2020 . . . .   CS6420 Applied Programming; CS3310 Artificial Intelligence

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. Examination Paper Moderation Committee, MAJU, Karachi (2018–present, chair Spring 2020)
2. Committee for Examination Policy for COVID-19 Pandemic, MAJU, Karachi (chair, Spring 2020)
3. Committee QEC Self-Assessment Report (SAR) for undergrad and grad CS and SE programmes, MAJU, Karachi (member, 2019)
4. External Course Review Committee, KIET, Karachi (2019)
5. Graduate Thesis Evaluation Committee, MAJU, Karachi (member, 2018–present)
6. Academic Advisor, MAJU, Karachi (2017–persent)
7. Final Year Project Evaluation/Exhibition Committee, MAJU, Karachi (member, 2017–present)
8. Founding Faculty Sponsor of ACM-MAJU Student Chapter, MAJU, Karachi (2017–present)
9. Admission Interviews Committee, MAJU, Karachi (member, 2017–present)
10. Credit Transfer Committee, MAJU, Karachi (member, 2018–present)
11. Faculty Sponsor of ACM-KIET Student Chapter, KIET, Karachi (2013–2015)
12. Final Year Project 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. "Discovering Lexical Similarity Through Articulatory Feature-based Phonetic Edit Distance". Tafseer Ahmed, Muhammad Suffian Nizami, Muhammad Yaseen Khan; *submitted.*
2. "Depressive Sentiment Analysis in Microblogs: A Machine Learning Approach". Shah Muhammad Emaduddin, Kamran Ahsan, Muhammad Yaseen Khan, and Sohaib Ahmed; *under review.*
3. "Exerting 2D-Space of Sentiment Lexicons with Machine Learning Techniques: A Hybrid Approach for Sentiment Analysis". Muhammad Yaseen Khan and Khurum Nazir Junejo; *International Journal of Advanced Computer Science and Applications*, volume 11, number 6, pages 0–0, 2020. Indexed in Clarivate Analytics' ESCI.
4. "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 2, pages 118–132, 2020. Indexed in Clarivate Analytics' SCI. JCR IF:0.7. DOI: 10.22452/mjcs.vol33no2.3
5. "Depression Detection using Naïve Bayes: Text based approach". Shah Muhammad Emad, Kamran Ahsan, Muhammad Yaseen Khan, Shoaib Ahmed, Rafi Ullah, Kashif Rizwan, and Farhan Shafiq; *Interciencia*, volume 44, number 11, pages 174–182, 2020. Indexed in Clarivate Analytics' SCIE. JCR IF:0.26.
6. "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.
7. "A Novel Approach For Ontology-Driven Information Retrieving Chatbot For Fashion Brands". Aisha Nazir, Muhammad Yaseen Khan, Tafseer Ahmed, Syed Imran Jami, and Shaukat Wasi; *International Journal of Advanced Computer Science and Applications*, volume 10, number 9, pages 546–552, 2019. Indexed in Clarivate Analytics' ESCI.
8. "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

9. "Pseudo Transfer Learning by Exploiting Monolingual Corpus: An Experiment on Roman Urdu Transliteration". Muhammad Yaseen Khan and Tafseer Ahmed; in: Bajwa I., Sibalija T., Jawawi D. (eds) Intelligent Technologies and Applications. INTAP 2019. *Communications in Computer and Information Science*, vol 1198. Springer, Singapore. DOI 10.1007/978-981-15-5232-8_36.

10. "Towards a Generic Approach for PoS Tag-wise Lexical Similarity of Languages". Muhammad Suffian Nizami, Muhammad Yaseen Khan and Tafseer Ahmed; in: Bajwa I., Sibalija T., Jawawi D. (eds) Intelligent Technologies and Applications. INTAP 2019. *Communications in Computer and Information Science*, vol 1198. Springer, Singapore. DOI 10.1007/978-981-15-5232-8_42.

Refereed Conference Publications

11. "Edit Distance-based Search Approach for Retrieving Element-wise Prosody in Hindi/Urdu Poetry". Muhammad Yaseen Khan, Muhammad Adil Rao, Shuakat Wasi, Twaha Ahmed Minai; *submitted.*
12. "Sign Language Translation in Urdu/Hindi Through Microsoft Kinect". Sohail, Muhammad Yaseen Khan, Nisar Ahmed Siddiqui, and Kiran; in *Proceedings of the 3rd Pak-Turk Conference On Emerging Technologies*, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan. June. 2020.
13. "Urdu Sentiment Corpus (v1.0): Linguistic Exploration and Visualization of Labeled Dataset for Urdu Sentiment Analysis". Muhammad Yaseen Khan and Suffian Nizami; in *Proceedings of the 2nd IEEE International Conference On Information Science & Communication Technology*, Karachi, Pakistan. Feb. 2020.
DOI: 10.1109/ICISCT49550.2020.9080043.
14. "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. Nov. 2019.
15. "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. Nov. 2019.
16. "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.
17. "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.
18. "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. 7th Intl. Conf. on Language and Technology, CLE-UET, Lahore (2020)
2. 2nd Intl. Conf. on Information Science & Communication Technology, UoK, Karachi (2020)
3. 2nd Intl. Conf. on Intelligent Technologies and Applications, IUB, Bhahawalpur (2019)
4. 1st Intl. Conf. on Data Science, MAJU, Karachi (2019)
5. 2nd Intl. Conf. on Computing and Information Sciences, KIET, Karachi (2018)
6. 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	Programming (Python, Java, JavaScript, C#, MySQL) · Typesetting with LaTeX
Languages	English · Urdu · Sindhi · Punjabi · Hindi · Arabic · Persian/Farsi · Pushto

REFERENCES

1. Dr. Tafseer Ahmed Khan.
2. Dr. Shaukat Wasi, Professor and Dean Faculty of Computing, MAJU, Karachi.
3. Dr. Asim Imdad Wagan, Professor and Dean Faculty of Engineering, MAJU, Karachi.
4. Dr. Muhammad Khalid Khan, Professor and Director CoCIS, PAF-KIET, Karachi.