MUHAMMAD **ARSLAN** MANZOOR

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EDUCATION

Philosophy of Doctorate, Natural Language Processing   Aug 2021 – Present
Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI), Abu Dhabi, UAE   *CGPA 3.82/4.00*

- Supervisors: Prof. Preslav Nakov, Prof. Monojit Choudhury, and Dr. Shangsong Liang
- Research: Detection of Bias & Factuality in News Media, Emotional and Empathic understanding of LMs
- Major courses: Natural Language Processing, Speech Processing, Data Mining

Master of Science, Computer Science and Artificial Intelligence   Sept 2017 – June 2020
Nanjing University of Science and Technology (NJUST), Nanjing, China   *CGPA 3.54/4.00*

- Supervisor: Prof. Jianfeng Lu
- Thesis: "Sentiment Analysis of Roman Urdu Sentences with Deep Neural Networks"
- Major courses: Artificial Intelligence, Computer Vision, Machine Learning, Distributed Data

Bachelor of Science, Information Technology   Oct 2013 – May 2017
Department of Computer Science, University of & Agriculture, Faisalabad (UAF), Pakistan   *CGPA 3.45/4.00*

- Supervisor: Dr. Muhammad Shabbir Abbasi

RESEARCH INTERESTS

- News Media Profiling, News Media Graphs, Enhancing GNNs for improved media profiling
- Evaluating / Enhancing the Emotional and Empathic understanding of LMs
- Enhancing the factuality of Large Language Models
- Multi-modal learning for NLP

PUBLICATIONS

Ally: Multi-Graph and Text Fusion for Improved Detection of Bias and Factuality in News Media   *(sub to ARR-2024)*
***Muhammad Arslan Manzoor**, Dilshod Azizov, Daniil Oreal, Zain Muhammad Mujahid, Preslav Nakov*

Can Machines Resonate with Humans? Evaluating the Emotional and Empathic Comprehension of LMs (Paper)   *(EMNLP-2024)*
***Muhammad Arslan Manzoor**, Yuxia Wang, Minghan Wang, Preslav Nakov*

A Decade of Deep Learning: Exploring the Top Seven Algorithms   *(sub. to ACM-2024)*
*Dilshod Azizov, **Muhammad Arslan Manzoor**, Shangsong Liang*

MGM: Global Understanding of Media Graphs for Predicting the Factuality / Bias of News Media (Paper)   *(NAACL-2025)*
***Muhammad Arslan Manzoor**, Ruihong Zeng, Preslav Nakov, Shangsong Liang*

A Survey on Predicting the Factuality and the Bias of News Media (Paper)   *(ACL-2024)*
*Preslav Nakov, Jisun An, Haewoon Kwak, **Muhammad Arslan Manzoor**, Zain Muhammad Mujahid, Husrev Taha Sencar*

Factuality of Large Language Models in the Year 2024 (Paper)   *(EMNLP-2024)*
*Yuxia Wang, Minghan Wang, **Muhammad Arslan Manzoor**, Fei Liu, Georgi Georgiev, Rocktim Jyoti Das, Preslav Nakov*

FRAPPE: FRAming, Persuasion, and Propaganda Explorer (Paper)   *(EACL Demo-2023)*
*Ahmed Sajwani, …, **Muhammad Arslan Manzoor**,… Preslav Nakov*

Multimodality Representation Learning: A Survey on Evolution, Pretraining and Its Applications (Paper)   *(ACM-TOMM-2023)*
***Muhammad Arslan Manzoor**, Sarah Albarri, Ziting Xian, Zaiqiao Meng, Preslav Nakov, Shangsong Liang*

Contrastive Self-Supervised Learning: A Survey on Different Architectures (Paper)   *(ICAI-2022)*
*Adnan Khan, Sarah Albarri, **Muhammad Arslan Manzoor***

Lexical Variation and Sentiment Analysis of Roman Urdu Sentences with Deep Neural Networks (Paper)   *(IJACSA-2020)*
***Muhammad Arslan Manzoor**, Saqib Mamoon, Son Kei, Ali Zakir, Muhammad Adil, Jianfeng Lu*

SPSSNet: a real-time network for image semantic segmentation (Paper)   *(ITEE-2020)*
*Saqib Mamoon, **Muhammad Arslan Manzoor**, Faen Zhang, Zakir Ali, Jianfeng Lu*

Multi Scale-Adaptive Super-Resolution Person Re-Identification Using GAN (Paper)   *(IEEE Access-2020)*
*Muhammad Adil, Saqib Mamoon, Ali Zakir, **Muhammad Arslan Manzoor**, Zhichao Lian*

Professional Experience

Research Officer
Nov 2020 – July 2021

Centre of Language Engineering, Al-Khwarizmi Institute of Computer Science, UET, Lahore, Pakistan
Research topics: Conversational AI, Urdu Chatbot, Low resource language understanding

- Wroked on open-source RASA framwork to build the AI based Urdu language Chatbot / Voicebot
- Collected, preprocessed and annotated real conversational stories to train NLU / NLP module for Urdu Chat/Voice Bot

Research Assistant (Remote)
July 2020 – July 2021

Umm Al Qura University, Mecca, Saudi Arabia
Research topics: Conversational AI, Language Models

- Assistant to Professor Anas Basalamah, worked on AI conversational Projects
- Investigated LSTM and Attention based Models for natural language understanding and paraphrasing tasks

Graduate Research Assistant
Aug 2018 – July 2020

School of Computer Science and Engineering, Nanjing University of Sci. and Tech., Nanjing, China
Research topics: Deep Neural Networks, Language Models, Transformers

- Explored LMs (Language Models) for the sentiment analysis of low resource code switch data on social media
- Collaborated with colleagues to leverage CNNs for semantic segmentaion and Person re-identification tasks

Summer Schools / Internships

- Attended Summer Program 2019 for Future Smart City in Shanghai Jiao Tong University
- Completed a 10-week Chinese language course at Nanjing University, China
- IT Intern at Pakistan Telecommunication Landline (PTCL), Faisalabad, Pakistan

Honours and Awards

- Fully funded PhD scholarship holder at MBZUAI, Abu dhabi
- Fully funded Masters scholarship holder from Chines Scholarship Council
- Undergraduate merit based scholarship holder
- Award holder from Chief Minister of Government of Pakistan
- Elite Scholarship holder in High school

Academic services

- Served as a reviewer at TOIS-2023, AACL-2023
- Served as a mentor to UGRIP internship program for NLP-01,02 projects at MBZUAI
- Served as volunteer at EMNLP 2022 Abu Dhabi, UAE
- Teaching assistant for the course NLP-801 (Deep Learning for NLP)

Languages

English, Urdu, Arabic, Hindi, Punjabi, Chinese

Other Interests

- Reading philosophy books, Exploring culture, Traveling, Playing badminton & soccer, Listening Tech podcasts