

## EDUCATION

### Philosophy of Doctorate, Natural Language Processing

Mohamed Bin Zayed University of Artificial Intelligence (MBZUAI), Abu Dhabi, UAE

August 2021 – Present

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

Nanjing University of Science and Technology (NJUST), Nanjing, China

Sept. 2017 – June 2020

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

Department of Computer Science, University of Agriculture, Faisalabad (UAF), Pakistan

Oct. 2013 – May 2017

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) (sub. to ARR-2024)  
**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

- Worked on open-source RASA framework 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 segmentation 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 Chinese 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, ACL-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