

# Atta Ullah

MPHIL SCHOLAR · COMPUTER SCIENCES

Address: Weather and Climate Services (H. 108), Lane 1, Lake View Lanes (LVL) Korang Road, Bani Gala, Islamabad.

☎ +92 344-189-7099 | ✉ [attaullah@cs.qau.edu.pk](mailto:attaullah@cs.qau.edu.pk) | 🏠 [Homepage](#) | 🔍 [GoogleScholar](#) | 📷 [Attaullahsw](#) | 🌐 [attaqau](#)

## About

Atta Ullah is a Research Associate at Weather and Climate Services (WCS), who received his Master's degree in Computer Science from Quaid-i-Azam University in December 2023. His research is focused on network science and machine learning, particularly graph machine learning. Prior to his master's, Atta Ullah earned a BS in Computer Science from the University of Swat, during which he also worked as a full-stack developer. At WCS, his focus is to apply his expertise in programming, data analysis, and machine learning to explore and make significant contributions to the dynamic field of climate change and sustainability.



## Education

### Quaid-i-Azam University

Islamabad, Pakistan

MPHIL COMPUTER SCIENCE

2021 - 2023

- **Dissertation:** Identifying Misinformation Spreaders on Twitter using Ego-Centric Network Embeddings.
- **Majors:** Social Network Analysis, Graph Machine Learning, Graph Neural Network
- **Minors:** Artificial Intelligence, Machine Learning

### University of SWAT

KPK, Pakistan

BS (HONS) COMPUTER SCIENCE

2017 - 2021

- **Project:** Learning Management System and Parental Control System
- **Majors:** Problem Solving, Data structure and Algorithm, Agile development, Web Development, Mobile App Development
- **Minors:** Risk Management, Project Management

### Government PG Jahanzeb College Saidu Sharif

KPK, Pakistan

HSSC COMPUTER SCIENCE

2015 - 2017

- **Grade:** A

## Research Experience

### Quaid-i-Azam University, Islamabad

Islamabad, Pakistan

ADVISOR: DR. RABEEH AYAZ ABBASI, CO-ADVISORS: DR. ANWAR SAID

May. 2022 - Sep. 2023

- Dissertation: "Identifying Misinformation Spreaders on Twitter using Ego-Centric Network Embeddings"
- Research areas: Conspiracy source detection in social networks, Graph Machine Learning, Graph Neural Network

## Industry Experience

### Maxtech Computer Institute & Maxtech Developers

Swat, KPK, Pakistan

FULL STACK DEVELOPER

Jan. 2020 - Aug. 2021

- Responsibility: As a Full Stack Developer, my primary role was developing both the front and back end. The back-end responsibilities included database design and implementation and developing an API for extracting data. On the front end, I was responsible for developing web applications using HTML, CSS, Bootstrap, JavaScript, and React. Additionally, I worked on Android app development using Java and XML. I used PHP, Laravel, CodeIgniter, Node.js, and Express.js in the development process

## Weather and Climate Services

Islamabad, Pakistan

### RESEARCH ASSOCIATE

Dec. 2023 - present

- Downscaling of climate change models
- Disaster Management and Risk Analysis
- AI and climate change
- Use and extend existing software, dashboards and modelling tools
- Provide support in processing, analysis and visualization of climate data
- Development of new online climate tools and data analysis dashboards

## Software Developed

---

- **Learning Management System.**

Firstly, the application functions as a student record database where administrative authorities can input the daily records of each student. This includes completed classwork, homework assignments, test and exam results, in-school moral/behavioral activities, and physical assessment reports. Additionally, school management authorities can share vital notifications regarding upcoming school events. Secondly, our proposed application allows parents to easily monitor their children's school activities and complete records daily with a single touch, providing them the convenience of checking at their preferred time.

- **Thalassemia Centers Management System.** ([source code](#))
- **IT Academy Center Institute Management System** ([source code](#))
- **Car Park Finder** ([source code](#))
- **Blood Donor Finder** ([source code](#))
- **Azad Medicine Company Supplier Order** ([source code](#))
- **Commonwealth toner and ink** ([Link](#))
- **ZAMA SHOPS Buy & Sell Pakistan** ([Link](#))

## Awards, Fellowships, & Grants

---

- 2023 **Prime Minister's Youth Laptop**, Higher Education Commission Pakistan
- 2023 **Winner of Hackathon Competition (8th Episode of ExclTeCup 2023)**, Capital University of Science & Technology (CUST), Highest Prize Money Award
- 2022 **Graduate Research Fellowship**, Quaid-i-Azam University, Islamabad, Pakistan

## Teaching Experience

---

- Spring 2023 **Data structure and Analysis of Algorithms**, Teaching Assistant at QAU Islamabad
- Spring 2023 **Problem Solving and Programming**, Teaching Assistant at QAU Islamabad
- 2020 **C++ Programming**, Programming Instructor at Maxtech Computer Institute Swat
- 2020 **Android App development**, Programming Instructor at Maxtech Computer Institute Swat

## Mentoring

---

- 2022-2023 **Hassan Saeed**, northwestern polytechnical university

## Outreach & Professional Development

---

### DEVELOPMENT

**MediaEval 2022 Workshop**, There were multiple tasks in the workshops. I participated in FakeNews Detection. The task consisted of three subtasks: Subtask 1: Text-Based Misinformation and Conspiracies Detection, Subtask 2: Graph-Based Conspiracy Source Detection, and Subtask 3: Graph and Text-Based Conspiracy Detection. I worked on Graph-Based Conspiracy Source Detection and presented a paper in the workshop.

## Publications \_\_\_\_\_

### PUBLISHED

**Ullah, A.**, Abbasi, R.A., Khattak, A.S. and Said, A., 2023. Identifying Misinformation Spreaders: A Graph-Based Semi-Supervised Learning Approach. arXiv preprint arXiv:2303.03704.

## Certification (Online courses) \_\_\_\_\_

- Java for Android (Coursera)
- Using Python to Interact with the Operating System (Coursera)
- Linear Algebra for Machine Learning and Data Science (Coursera)
- Introduction to Docker (Coursera)
- Health Data Science Foundation (Coursera)
- Linear Algebra for Machine Learning and Data Science (Coursera)
- Web Application Technologies and Django (Coursera)
- Crash Course on Python (Coursera)
- Mathematics for Machine Learning: Linear Algebra (Coursera)
- AI for Medical Diagnosis (Coursera)
- Calculus for Machine Learning and Data Science (Coursera)

## Skills \_\_\_\_\_

### PROGRAMMING SKILLS

- **Languages:** Python, Java, JavaScript, PHP
- **Frameworks and libraries:** Laravel, CodeIgniter, Nodejs, React
- **Database:** MySQL
- **Machine Learning:** Networkx, TensorFlow, Scikit-learn, PyG, PyTorch, Deep Graph Library

### COMMUNICATION SKILLS

- English
- Urdu
- Pushto

## References \_\_\_\_\_

- **Dr Fahad Saeed**, Scientific Model and Data Manager / Regional Climate Scientist Climate Science and Impacts.  
Email: [fahad.saeed@climateanalytics.org](mailto:fahad.saeed@climateanalytics.org)  
Portfolio: <https://www.linkedin.com/in/fahad-saeed-49332766/>
- **Dr. Rabeeh Ayaz Abbasi**, Tenured professor and head of department, Department of Computer Science, Quaid-i-Azam University, Islamabad, Pakistan.  
Email: [rabbasi@qau.edu.pk](mailto:rabbasi@qau.edu.pk)  
Portfolio: <https://rabeehabbasi.github.io/>
- **Dr. Anwar Said**, Postdoctoral Research Scholar, Institute for Software Integrated Systems, Department of Computer Science, Vanderbilt University, Nashville, TN, USA.  
Email: [anwar.said@vanderbilt.edu](mailto:anwar.said@vanderbilt.edu)  
Portfolio: <https://anwar-said.github.io/anwarsaid/>