

Atif Khan

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Education

- April 2024** 📖 **Ph.D. in Machine Learning and Biomedicine**
Wellcome Centre for Mitochondrial Research and EPSRC CDT, **Newcastle University**.
Thesis title: *mitoML: Machine Learning to Understand Mitochondrial Disease Pathology*.
Advisers: Stephen McGough, Conor Lawless and Amy Vincent
- 2019 – 2020** 📖 **MRes in Machine Learning, Big Data & Cloud Computing**
Newcastle University, United Kingdom.
Dissertation title: *Exploring the case for parametrised resampling for fairness optimisation driven by nuanced metrics for measuring Machine Learning bias*.
Dissertation Adviser: Paolo Missier
- 2017 – 2019** 📖 **MSc in Cloud Computing**
Newcastle University, United Kingdom.
Dissertation title: *Evaluation of Hail: A Genomic (Big) Data Analytics Platform*.
Dissertation Adviser: Paolo Missier
- 2008 – 2009** 📖 **MSc in Computer Network Systems**
Sunderland University, United Kingdom.
- 2003 – 2007** 📖 **BEng in Electronics and Communication Engineering**
Jawaharlal Nehru Technological University, India.

Employment History

- 2019 –** 📖 **Teaching/Research Assistant**
Newcastle University, United Kingdom
- 2013 – 2019** 📖 **DevOps/ Software Engineer**
Newcastle University, United Kingdom
Role: I was a collaborative worker responsible for development, deployment and maintenance of various applications.
- 2011 – 2013** 📖 **Infrastructure Engineer**
York Hospital NHS Foundation Trust, United Kingdom
Role: I was responsible for deployment and maintenance of network and server infrastructure.

Achievements

Awards

- 2019** 📖 **Doctoral Studentship Award**, by EPSRC Cloud Computing for Big Data Centre for Doctoral Training.
- 2023** 📖 **ML4H Travel Grant Award**, by Association for Health Learning & Inference

Certifications

- 2012** 📖 **MCITP: Infrastructure Administrator on Windows Servers**. Awarded by Microsoft.

Skills

Technical Expertise	Computer Vision, Machine Learning, Bio-imaging data, Genomics data.
Coding and Data Science	Python, R, Java, C, C++, \LaTeX
Software & Cloud	Building (Python Packages, Napari Plugins, Docker Images), OpenShift, Cloud Deployments.
Misc.	Academic research, teaching and publishing.

Research Publications

Conference Proceedings

- 1 A. Khan, C. Lawless, A. E. Vincent, *et al.*, “Introducing ncl-sm: A fully annotated dataset of images from human skeletal muscle biopsies,” in *Machine Learning for Health (ML4H) Symposium 2023, New Orleans, United States*, 2023. [DOI: 10.48550/arXiv.2311.11099](#).
- 2 A. Khan, C. Lawless, A. E. Vincent, *et al.*, “Ncl-sm: A fully annotated dataset of images from human skeletal muscle biopsies,” in *2023 IEEE International Conference on Big Data (BigData)*, 2023, pp. 3704–3710. [DOI: 10.1109/BigData59044.2023.10386552](#).
- 3 A. Khan, C. Lawless, A. E. Vincent, S. Pilla, S. Ramesh, and A. S. McGough, “Explainable deep learning to profile mitochondrial disease using high dimensional protein expression data,” in *2022 IEEE International Conference on Big Data (Big Data)*, 2022, pp. 4375–4384. [DOI: 10.1109/BigData55660.2022.10020391](#).

Reviewing

Reviewer [IEEE Big Data](#) | 2023, 2022

References

Available on Request