

Aqeel Ahmed

Hauptstr. 62, 69117 Heidelberg



Email: aqeelhmed@gmail.com

Website: aqeelhmed.github.io

Linkedin: linkedin.com/in/aqeelhmed

Publications: inspirehep.net/authors/1091402

Phone: +49 1575 2778 443

ORCID: 0000-0002-2907-2433

GitHub: github.com/aqeelhmed

Google Scholar: [pVXTbXYAAAAJ](https://scholar.google.com/citations?user=pVXTbXYAAAAJ)

SUMMARY	PhD physicist with strong expertise in analytical problem-solving, quantitative modeling, and computational methods. Experienced in leading complex, data-driven research projects and developing analytical models using Python, C/C++, and Mathematica, resulting in over 30 peer-reviewed publications in theoretical physics. Actively transitioning toward data science, machine learning, and AI-driven analysis, with a strong interest in applying scientific modeling expertise and technical proficiency to data-intensive roles.	
SKILLS	<ul style="list-style-type: none">♦ Data Science: Numpy, Scipy, Pandas, Scikit-learn, PyTorch, Scikit-HEP, Google Cloud♦ Programming: Python, C/C++, Fortran, Wolfram Mathematica♦ Tools: Git, Linux, LaTeX, Jupyter, Docker, SQL♦ Soft Skills: Project Management, Communication, Critical Thinking, Team Collaboration♦ Languages: English (Fluent), German (Intermediate)	
EXPERIENCE	<ul style="list-style-type: none">♦ Postdoctoral Researcher Oct 2020 – Dec 2025 Max-Planck-Institut für Kernphysik, Heidelberg, Germany – Developed new complex quantitative/mathematical models and performed data analysis♦ Postdoctoral Researcher, Oct 2018 – Sep 2020 Vrije Universiteit Brussel, Brussels, Belgium – Built analytic models and visualized large data using NumPy, Pandas, and Matplotlib♦ Postdoctoral Researcher, Dec 2017 – Sep 2018 Johannes Gutenberg University, Mainz, Germany – Extensive use of Python and Mathematica for symbolic and numerical analysis♦ Research Associate Apr 2016 – Nov 2017 University of Warsaw, Warsaw, Poland – Led research initiatives, performing advanced analytic and numerical calculations.	
EDUCATION	<ul style="list-style-type: none">♦ PhD Physics (<i>International PhD Fellowship</i>) Dec 2011 – Jan 2016 University of Warsaw, Warsaw, Poland <i>Visiting Student:</i> University of California, Riverside, USA (1 year) University of California, Davis, USA (6 months)♦ M.Sc. & M.Phil Physics (<i>Chancellor Gold Medal</i>) Feb 2006 – Apr 2010 Quaid-i-Azam University, Islamabad, Pakistan	
MANAGEMENT	<ul style="list-style-type: none">♦ Supervision: Co-supervised 10+ Masters/PhD students during my research career.♦ Teaching: I have taught advanced graduate courses in physics at the University of Heidelberg, University of Warsaw, Vrije Universiteit Brussel, and Quaid-i-Azam University♦ Communication: Presented my scientific work at 50+ international conferences, workshops, schools, and seminars across Europe, Asia, and the USA♦ Organization: I have organized 10+ international conferences and workshops♦ Scientific Referee: Journal of High Energy Physics (JHEP), Physical Review D (PRD), European Physical Journal C (EPJC), and Advances in High Energy Physics♦ Representative: Postdoc representative and convener of <i>be-h project</i> (www.be-h.be)	