

Aqeel Ahmed

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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 particle physics. Seeking to apply scientific rigor, modeling expertise, and technical proficiency to data-intensive and analytical 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, B1) [Enrolled B2]	
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)	