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. Seeking to apply scientific rigor, modeling expertise, and technical proficiency to data-intensive and analytical roles.

SKILLS

- **Programming:** Python, C/C++, Fortran, Wolfram Mathematica
- **Data Science:** Scikit-learn, PyTorch, Scikit-HEP
- **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

- 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
  − Analytic model building and implemented algorithms in C++, Python and Mathematica.

- Postdoctoral Researcher, — Dec 2017 – Sep 2018
  Johannes Gutenberg University, Mainz, Germany
  − Utilized Mathematica and Python for symbolic analysis and numerical simulations.

- Research Associate — Apr 2016 – Nov 2017
  University of Warsaw, Warsaw, Poland
  − Led research initiatives, performing advanced analytic and numerical calculations.

EDUCATION

- PhD Physics *(International PhD Fellowship)* — Dec 2011 – Jan 2016
  University of Warsaw, Warsaw, Poland
  Visiting Student: University of California, Riverside, USA (1 year)
  University of California, Davis, USA (6 months)

- M.Sc. & M.Phil Physics *(Chancellor Gold Medal)* — Feb 2006 – Apr 2010
  Quaid-i-Azam University, Islamabad, Pakistan

MANAGEMENT

- **Supervision:** Co-supervised *10+ Masters/PhD students during my research career.*
- **Teaching:** I have taught advanced graduate courses in physics at the Quaid-i-Azam University, University of Warsaw, Vrije Universiteit Brussel, and University of Heidelberg.
- **Communication:** Presented my scientific work at 50+ international conferences, workshops, schools, and seminars across Europe, Asia, and the USA.
- **Organizer:** 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 *be-h project* (www.be-h.be), Belgium