

Aqeel Ahmed

Address: 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 particle physics. 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, Google Cloud
- ♦ **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