

# 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 – Present  
**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 of *be-h project* ([www.be-h.be](http://www.be-h.be)), Brussels Belgium