

Advait Dhingra

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PHYSICS EXPERIENCE:

Friedrich-Wilhelms-University Physics Department, Bonn — Intern

18. January 2021 - 29. January 2021

At the University of Bonn Physics Institute, I programmed a Muon detector simulation using the Root C++ framework developed by CERN. I also participated in a Masterclass organized by Netzwerk Teilchenwelt, where I learned how to analyze LHC data, by using a program called Minerva to analyse ATLAS data.

Contributor to ROOT, An open-source C++ data analysis framework used by high energy physics and others. ROOT was used in part to discover the Higgs-Boson particle.

ATLAS International Masterclass “hands on particle physics”, Online, Tutor

24. March 2021 9:00 -17:00

I attended an International Masterclass on particle physics as a tutor. My job was to help the attendees analyse ATLAS detector data.

InternationalMasterclasses@Home Uni Göttingen, Online — Participant

10 Mar 2021, 09:00 - 17:15

I attended this Masterclass organized by the University of Göttingen. Here I analysed ATLAS data using a program called Hypatia.

IceCube Masterclass with the IceCube Collaboration and the JGU Mainz, Online — Participant

Tuesday 06 Apr 2021 - Wednesday 07 Apr 2021

I attended a Masterclass on the IceCube detector at the South Pole and learned how the detector works and how the data is analysed.

Teilchenphysik-Masterclass@home at Joseph-König-Gymnasium in Haltern am See, Online — Participant

Thursday 28 Jan 2021, 08:00 - 15:30

I attended this Masterclass organized by the University of Göttingen. Here I analysed ATLAS data using a program called Minerva.

SKILLS

Solving a Rubik's Cube in under 16 seconds

SOFTWARE

Languages: Python, HTML5, CSS3, JavaScript, C#, C++

UI-Frameworks: ReactJS, Material-UI, Bootstrap

Physics and Science: ROOT by CERN (I also contributed to ROOT's open-source software)

Game Development: Unity (C#)

Misc: Git, Markdown, Latex

LANGUAGES

- English (100%)
- German (95%)
- French (50%)
- Hindi (45%)

EDUCATION

Independent Bonn International School, Bonn— *Primary School*

May 2011 - February 2016

Friedrich-Ebert-Gymnasium, Bonn— *Highschool Degree + IB Diploma*

February 2016 - PRESENT