

Avani Bhardwaj

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EDUCATION

Queen's University

Master's of Physics Candidate, Supervised by Dr. Nahee Park

Kingston, Ontario

Present

University of Toronto

Bachelor of Science in Physics, Minor in Math

Toronto, Ontario

Sept 2017 – June 2022

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript

Frameworks: ROOT, GEANT4, TensorFlow

EXPERIENCE

Undergraduate Research Assistant

Department of Physics, ATLAS ITk

Supervisor: Dr. Robert Orr

May 2019 - May 2023

Toronto, ON

Undergraduate Research Student

SNOLAB, Low Background Counting Group

Supervisor: Dr. Silvia Scorza

Sep. 2021 – December 2021

Toronto, ON

PUBLICATIONS AND CONFERENCE PROCEEDINGS

- J Fernández-Tejero, A Affolder, E Bach, MJ Basso, A Bhardwaj, Vladimir Cindro, A Dowling, V Fadeyev, C Fleta, A Fournier, et al. Analysis of humidity sensitivity of silicon strip sensors for atlas upgrade tracker, pre-and post-irradiation. *Journal of Instrumentation*, 18(02):P02012, 2023
- Ioannis Kopsalis, P Allport, E Bach, A Bhardwaj, A Chisholm, V Cindro, V Fadeyev, P Federicova, J Fernandez-Tejero, C Fleta, et al. Establishing the quality assurance programme for the strip sensor production of the atlas tracker upgrade including irradiation with neutrons, photons and protons to hl-lhc fluences. *Journal of Instrumentation*, 18(05):C05009, 2023
- Shigeki Hirose, Vera Latonova, Bianca Monica Ciungu, Marcela Mikestikova, Jiri Kvasnicka, Amelia Hunter, Benjamin Matthew Crick, Joshua David Lomas, Vladimir Cindro, Igor Mandic, et al. Atlas itk strip sensor quality assurance tests and results of atlas18 pre-production sensors. Technical report, ATL-COM-ITK-2023-001, 2023
- Robert Orr, Laura Gonella, Yoshinobu Unno, Tony Affolder, Mei Kanda, Urmila Soldevila Serrano, Carles Solaz Contell, Miguel Ullan, William Frederick George, Philip Patrick Allport, et al. Experimental study and empirical modelling of long term annealing of the atlas18 sensors. Technical report, ATL-COM-ITK-2022-126, 2023

LEADERSHIP AND EXTRACURRICULAR

Undergraduate Representative for the IDEA committee

Sept 2021 - April 2022

Volunteer for Canadian Conference Women in Physics

January 2020