

# Dulitha Jayakodige

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Ph.D. Candidate in Physics with 4+ years of research experience in Theoretical Nuclear Physic. Skilled in cleaning, visualizing and model building with large data sets. Data Science enthusiast who looks for an opportunity to exploit Physics, Mathematics, and Programming skills.

## PROFESSIONAL EXPERIENCE

**Research Assistant** 05/2019-present

**Thomas Jefferson National Accelerator Facility Newport News, VA.**

- Pion Nucleon Scattering using Chiral Perturbation Theory and  $1/N_c$  Expansion
- Data cleaning, analyzing, visualization, and model building using Python and Mathematica

**Research Assistant** 01/2016 - 04/2019

**Graduate Physics Research Center, Hampton University, Hampton, VA.**

- Monte Carlo simulations of Quantum Ghost Imaging using Python and Matlab
- Data acquisition using Matlab

**Teaching Assistant at Hampton University, Hampton, VA and University of Colombo, Colombo, Sri Lanka** 02/2015 - 05/2017

- Teaching and grading Introductory Physics Labs
- Conducting tutorial classes

## EDUCATION

**Ph.D. in Theoretical Particle Physics** expected December 2023  
Hampton University, Hampton, VA

**B.Sc. in Physics,** January 2015  
University Of Colombo, Colombo, Sri Lanka

**Deep Learning Specialization** expected December 2022  
[Deeplearning.AI/Coursera.com](https://www.coursera.org/learn/deeplearning)

**IBM Data Science Specialization** March 2022  
[IBM Skills Network/Coursera.com](https://www.coursera.org/learn/data-science-specialization)

## SKILLS AND INTERESTS

**Technical skills :** Advanced in Python, Mathematica, MATLAB, and LATEX; Experienced in SQL, Java, and Linux/Windows operating systems.

**Languages :** Fluent in Sinhala and English

**Awards :** 3rd best presentation at the School of Science Research Symposium, Hampton University

**Interests :** Chess, photography, and hiking

## PORTFOLIO

<https://dulithajayakodige.github.io/>