# **UTTIYA SARKAR**

## Particle Physicist and Data Analyst, CERN uttiyasarkar.github.io

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## **EXPERIENCE**

#### Post Doctoral Researcher

#### **Ecole Polytechnique**

April 2021 - April 2023

- Palaiseau, France
- Involved in operations and performance for the data taking of the Large Hadron Collider, improving algorithms for physics object studies

#### Guest and Visitor Researcher

#### **Fermilab**

**a** Jan 2019 - June 2019

Batavia, Illinois

· Algorithm design and testing for physics objects

# **EDUCATION**

## Ph.D. in Experimental High Energy Physics **Tata Institute of Fundamental Research**

**A**ug 2015 - Feb 2021

Mumbai, India

### Masters in Physics

#### Indian Institute of Technology, Indore

**Aug** 2013 - June 2015

Indore, India

# **Bachelors** in Physics

#### **Burdwan University**

**Aug** 2010 - June 2013

Burdwan, India

# **PUBLICATIONS**

### Journal Articles

• Search for supersymmetry in proton-proton collisions at  $\sqrt{s} =$ 13 TeV in final states with high-momentum Z bosons and missing transverse momentum. (2020). arXiv: 2008.04422

#### Conference Proceedings

Sarkar, U. (2021). Searches for supersymmetry in CMS. In 9th International Conference on New Frontiers in Physics. arXiv: 2105. 01629 [hep-ex]

# **ACHIEVEMENTS**



#### **CNRS Fellow**

Ecole Polytechnique, Palaiseau



# Topper, M.Sc.

Indian Institute of Technology Indore (CGPA 8.9)



Contributor to feature documentary Life in a day 2020



Bronze Medalist, Tabla (Indian percussion instrument)

## ABOUT ME

"More than 7 years of work experience in Compact Muon Solenoid experiment at the Large Hadron Collider, CERN. Involved in handling large data and software development"

# **LANGUAGES**

Languages:

C++, Python, BASH

IDE:

VSCode, Jupyter

**Version Control:** 

Git. Jenkins

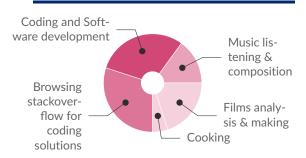
Web Development:

Java, HTML, PHP

English, Bengali, Hindi French



# **INTERESTS**



# LEADERSHIP



Contact person of data analysis of a particle search



Guided 2 PhD and 1 Masters student



Conference talks in more than 10 places all over the world

Masters Ph.D. level Teaching assistant of Particle Physics course

# CREATIVE

