UTTIYA SARKAR

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

@ uttiyasarkar@gmail.com uttiyasarkar in uttiva-sarkar

J +33 76 90 192 48

■ 30 Rue Brancion, Paris 75015, France



EXPERIENCE

Post Doctoral Researcher

Ecole Polytechnique

- iii 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.
- Extensively used object-oriented programming in C++ and Python in IDE like VSCode and Jupyter to test and version controlling in Git.
- Used JS, php and html for creating and maintaining webpage-based data monitoring tools.

Guest and Visitor Researcher

Fermilab

- **i** Jan 2019 June 2019
- Batavia, Illinois
- Algorithm design and testing for physics objects.
- Developed programming skills in BASH, Linux and MacOS systems. Skills of Latex for scientific journal writing.

EDUCATION

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

Aug 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
- View my full list of publications in: orcid[®], google scholar, and inspire.(No. of publications=157, h-index=38)

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

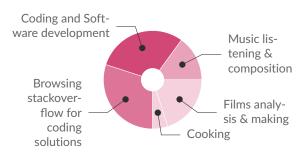
Web Development:

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

