

Session Program

26 May 2026 to 31 July 2026

**USCMS Undergraduate Summer Internship
2026**

Afternoon

WH11NW, Pileup

Tuesday 26 May

13:00

Afternoon

Session | Location: WH11NW, Pileup

13:00-14:00 CMS Physics Overview (C)

Speaker

Tulika Bose

14:00-15:00 CMS Detector - a discovery tool (C)

Speaker

Steve Nahn

15:00-17:00 Entering Research (C)

Speaker

Chris Palmer

17:00

Wednesday 27 May

13:00

Afternoon: Afternoon Session

Session | **Location:** WH11NW, Pileup

13:00–14:30 Cohort building (C)

Speakers

Matthew Bellis, Sudhir Malik

Location

Pileup

14:30–16:00

The UNIX Shell: A guide through the basics of the file systems and the shell

Speaker

Iliomar Rodriguez Ramos

Location

WH11NW, Pileup

16:00–17:00 How to do Particle Physics in a Climate Emergency? (C)

Speaker

Kenneth Bloom

Location

WH11NW, Pileup

17:30

Thursday 28 May

13:00

Afternoon: Afternoon Session

Session | **Location:** WH11NW, Pileup

13:00–14:00

The UNIX Shell: A guide through the basics of the file systems and the shell

Speaker

Iliomar Rodriguez Ramos

14:00–17:00

Git II - In this lesson we use Git from the Unix Shell

Speaker

Sneha Vireshwar Dixit

Location

WH11NW, Pileup

17:00

Friday 29 May

13:00

Afternoon: Afternoon Session

Session | **Location:** WH11NW, Pileup

13:00–14:00 **Calorimeters: current and future (C)**

Speaker

Grace Cummings

14:00–17:00 **Introduction to Python II**

Speakers

Mateo Lisondo, Namratha Urs

17:00

Monday 1 June

13:00

17:30

Afternoon	
Session Location: WH11NW, Pileup	
13:00-14:00	Visit to Sidet (Silicon Detector Facility)
Location Sidet	
14:00-17:15	PyROOT and RDataFrame
Speaker Anagha Aravind	
Location WH11NW, Pileup	

Tuesday 2 June

13:00

Afternoon

Session | **Location:** WH11NW, Pileup

13:00–14:00

Future Collider (Muon Collider) (C)

Speaker

Tova Ray Holmes

Location

Fermilab, Pileup

14:00–17:00

Python for HEP

Speaker

Richa Sharma

Location

WH11NW, Pileup

17:00

Wednesday 3 June

13:00

Afternoon

Session | **Location:** WH11NW, Pileup**13:00–14:00** **CMS computing (C)****Speaker**

Nick Smith

14:00–17:00 **Machine Learning****Speaker**

Arghya Chattopadhyay

17:00

Thursday 4 June

13:00

Afternoon

Session | **Location:** WH11NW, Pileup

13:00–14:00 Particle Physics Career Mentoring (C)

Speakers

Robert Harris, Robert Harris

Location

Fermilab, Pileup

14:00–17:00 Machine Learning Exercises

Speaker

Arghya Chattopadhyay

Location

WH11NW, Pileup

17:00

Friday 5 June

13:00

Afternoon

Session | **Location:** WH11NW, Pileup

13:00–14:00

High-energy Collisions through the Ages (C)

Speaker

Chris Quigg

14:00–15:00

CMS 101

Speakers

Arghya Chattopadhyay, Iliomar Rodriguez Ramos, Sudhir Malik

15:00–15:30

Classes Q&A

Speakers

Anagha Aravind, Arghya Chattopadhyay, Iliomar Rodriguez Ramos, Marco Mambelli, Mateo Lisondo, Namratha Urs, Sneha Vireshwar Dixit

15:30–16:30

Coordination with mentors and sendoff

19:00

Thursday 30 July

13:00

Afternoon: Interns' Final Presentations (20 min talk + 10 min Q&A) - Reviewers: TBD

Session | Location: WH11NW, Pileup

13:00-13:30

Emma Gillespie - Study of Unboosted Higgs Pair Production with $HH \rightarrow b\bar{b}WW$ Decay

13:30-14:00

Munashe Chipara - Performance Validation of Endcap Timing Layer Detector Modules for the CMS Phase-2 Upgrade

14:00-14:30

Ngaatendwe Dumbarimwe - Flavor tagger calibration using generative modeling

14:30-15:00

Prince Osei Boakye - Why CMS Needs HGCALE: Cassette Assembly and End-to-End Data Flow

15:00-15:25

Julian Martinez Baron - Implementing a neural network event categorization for top quark studies in Effective Field Theory (EFT) context

16:00

Friday 31 July

13:00
14:30

Afternoon: Feedback session

Session | Location: WH11NW, Pileup

13:00-14:10 Interns fill 10-week feedback form