

## A mini introduction

Ejiro Umaka NPPS Group Meeting 06/11/25

Born in Nigeria
Favorite course was English composition pre-HS
Relocated to Sugar Land, TX in teenage years
Likes: music, walks, movies, sightseeing, reading, writing, scientific engagement

### Where it started

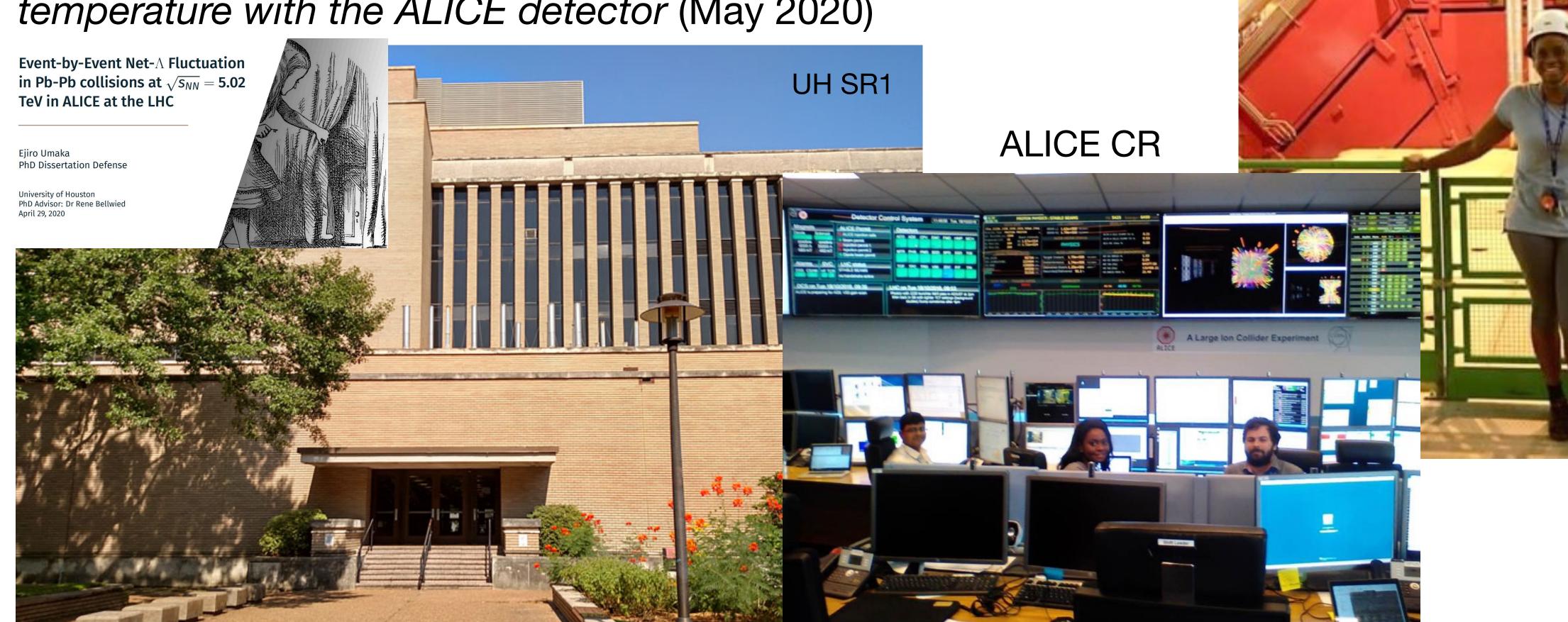
### <u>University of Houston — Houston, TX</u>

B.S in Biology, minor in Psychology and ~ Math

B.S. and M.S. in Physics

Ph.D. in Physics — thesis topic: QCD crossover

temperature with the ALICE detector (May 2020)



ALICE Detector — near Geneva, Switzerland (2018) Just finished working on the ALICE TPC (for the day)

## First exploration outside Houston



June 2020 - June 2021

352

85.2%

27.24%

100.0%

100.0%

154

82

662

2021-10-27 02:53:38

2021-10-27 02:40:18

2021-10-27 02:25:12

2021-10-27 02:11:11

 I went into campus only twice in the entirety of my stay in Ames. This was during the pandemic lockdown period

Worked on jet physics in ATLAS

Completed many software and simulation projects in sPHENIX for the hadronic calorimeters and event plane detector

anal/panda-client-1.4.88-jedi-run Ejiro Naomi Umaka

user.eumaka.DijetTree\_data17\_00341534\_20211027\_0358

user.eumaka.DijetTree\_data17\_00341419\_20211027\_0358

user.eumaka.DijetTree\_data17\_00341312\_20211027\_0358

user.eumaka.DijetTree\_data17\_00341294\_20211027\_0358

Moved to BNL with the same employer in 2021

27153545 277

27153543 275

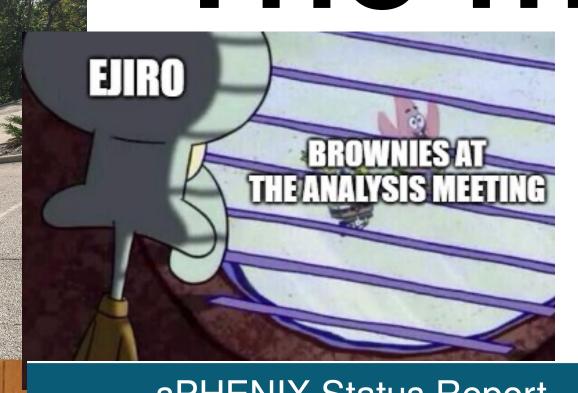
27153524 273

JER for 2018 low  $\mu$  13 TeV pp data

Ejiro Umaka

Iowa State University

# The move to BNL



sPHENIX Status Report

**Ejiro Umaka** on behalf of sPHENIX Collaboration

RHIC & AGS Annual Users' Meeting 2021

Virtual, June 8-11, 2021 John Guy Lajoie 13:03



... and apparently Slack doesn't do animated GIFs....

> Event Plane & Centrality Performance Ejiro Umaka (ISU) | sEPD Meeting | August 16, 2021

PostDoc at ISU (Ames, IA), in John Lajoie's group June 2021 - May 2022

- Stationed at BNL as of June 2021
- Worked on sPHENIX HCAL tile assembly
- Jet studies in simulation incorporating event plane with forward detectors (FEMC, then sEPD). MRI submitted for sEPD, then funded.
- Employed by BNL in May 2022 to work fulltime on sPHENIX

The last three years at BNL

#### Research Associate at BNL

June 2022 - present (in sPHENIX group)

June 2025 - present (in NPPS group)

### Activities in sPHENIX (June 2022 - May 2025)

Reconstruction and calibration software development

Offline software lead for the ZDC & sEPD

sPHENIX detector commissioning

Zero Degree Calorimeter expert

Event Displays development for sPHENIX (with Dmitry A.)

Run webpage development

Guided tours at sPHENIX

sPHENIX Juniors' Representative (2022-2024)

Publication board and By-laws committee member

Several data-taking owl shifts as shift leader

Science outreach - research SLAMs etc.

#### June 2025 to present

ePIC streaming workflow testbed
Measurement of jet UE fluctuations in sPHENIX
Jet v2 feasibility studies with run 2024 data
Event plane reconstruction in sPHENIX

