

CSI-DEI Council 2023 Activities

CSI-DEI Council Meetings FY 2023

Bi-monthly Fall 2022; Monthly 2023

- New member: Summer 2023, Ozgur Kilic
- Currently, CSI-DEI Council includes 11 members

Sustainable Research Pathways (SHI/SRP)

Summer 2023

- Chris Kelly (CSI-DEI Council member)
 - Morgan State University: 4 students, 1 professor, CODAR/Chimbuko project, analysis of provenance database using various modern analysis techniques.
 - Texas State University: 4 students, 1 professor, CODAR/Chimbuko project, merging counter analysis component, offline visualization, machine learning (ML)-based generative modeling and compression of provenance database.
- Line Pouchard (CSI-DEI Council chair)
 - Tufts University: 1 student, RECUP project, design and implementation of metadata schema for RECUP data sources (Chimbuko, RCT).

BNL-OEP College Research Teachers Program

Spring, Summer 2023 (continues informally Fall 2023)

- Line Pouchard
 - Morgan State University: 1 professor, two students, classification of Seismic Events with machine learning.

Hybrid CSI Summer Seminar Series 2023

July 6 - Aug. 3, 2023

<https://indico.bnl.gov/event/19927/>

- *Coffee on the Edge of Computing* seminar series for summer students and VFP, organized by Meifeng Lin (CSI-DEI Council member)
 - Hosted by Meifeng Lin + Mohammad Atif
- 5 speakers: 4 CSI and 1 VFP from Farmingdale
 - Line Pouchard
 - Vanessa López-Marrero
 - Matthew Carbone (CSI-DEI Council member)
 - Prof. Paulo Castillo (SUNY-Farmingdale)
 - Nathan Urban

National Virtual Biosecurity for Bioenergy Crops Center (NVBBCC) DEIA Workforce Development Session

May 18, 2023

- Matthew Carbone and Meifeng Lin, hosted 2 invited presentations + panel discussion
- Speakers: Sophie L. Kuchynka (Rutgers University) and Reed Milewicz (Sandia National Lab)
- Panelists: Sophie L. Kuchynka, Reed Milewicz, Mary Ann Leung (Sustainable Horizons Institute), Noel Blackburn (BNL DEI Office)
- Produced a report

Posters from BNL-DEI Council

Summer 2023

- Three posters displayed in Building 725 at the beginning of Summer 2023.

Computational Research Leadership Council (CRLC) Seminar

Jan. 27, 2023

- Performance Analysis of Workflows at Exascale (Chris Kelly)

Workforce Development for Teachers and Scientists (WDTs) Reaching a New Energy Sciences Workforce (RENEW) Program (CSI Contribution)

July 10-12 and July 31-Aug. 4, 2023

<https://www.energy.gov/science/articles/does-renew-initiative-support-five-pathway-summer-schools-students>

- Organized and coordinated by Matthew Carbone (co-PI on WDTs grant; \$600K over six weeks of programming)
- Workshop/module leaders (gave 2-hour technical tutorials): Dakota Blair, Patrick Johnstone, Matthew Carbone, Thomas Flynn, Shubha Kharel
- Workshop/module teaching assistants (assisted presenters during presentations): Dakota Blair, Hubertus Van Dam, Matthew Carbone, Patrick Johnstone, Ozgur Kilic (CSI-DEI Council member), Yi Huang, Lingda Li, Ray Ren, Mikhail Titov, Thomas Flynn, Chuntian Cao, Wei Xu, Shubha Kharel, Nathan Urban, Sanket Jantre
- Talk presenters (presented 1-hour talks about various topics): Carlos Soto, Line Pouchard, Natalie Isenberg, Matthew Carbone
- Panelists (1-hour panels): Carlos Soto, Line Pouchard, Gilchan Park, Vanessa López-Marrero, Kerstin Kleese Van Dam, Nathan Urban, Ray Ren, Francis Alexander, Shinjae Yoo, Chuntian Cao, Ai Kagawa, Matthew Carbone
- Two tours of Scientific Data and Computing Center were led by Imran Latif

CSI Postdoc Mentoring

Fall 2022 - present

- Chris Kelly: 1 postdoc
- Meifeng Lin: 1 postdoc
- Matthew Carbone: 2 postdocs

CSI Engagement Survey Follow-up Report

Fall 2022, Spring 2023

- Results presented at CSI ALI HAnds Meeting, March 2023

DOE Nuclear Physics Office FAIR Award

August 2023

<https://science.osti.gov/-/media/funding/pdf/Awards-Lists/2931-FAIR-Award-List.pdf>

- *Towards Simulating Quantum Chromodynamics with External Electromagnetic Fields on Noisy Quantum Computers*, Meifeng Lin, with St. Olaf College SuSp