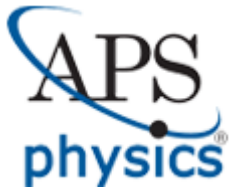




DSECOP Workshop 2022

William Ratcliff, NIST



INSTITUTE FOR
PHYSICAL SCIENCE
& TECHNOLOGY



Acknowledgements

- Wolfgang Losert (U Maryland, College Park)
- Alexis Knaub (AAPT)
- Marilena Longobardi (University of Basel)
- Mohammad Soltaneih-ha (Boston University)
- Anil Zenginoğlu (U Maryland, College Park)



Wireless

Eduroam

<https://tinyurl.com/2p8huaxx>





Slack

<https://tinyurl.com/fnjnc3ww>
#dsecop





Sli.do

<https://tinyurl.com/2u7s6zbk>





How do you feel?

<https://tinyurl.com/22s2ncxn>



Wednesday, June 22	DSECOP 2022 Data Science in Physics Workshop
9:00 – 9:30	William Ratcliff (NIST, University of Maryland) <i>Opening Remarks</i>
9:30 – 10:30	Mohammad Soltanieh-ha (Boston University) Overview of Fellows' Activity
10:30 – 11:00	COFFEE Break
11:00 – 11:30	Julie Butler (Michigan State University) Fellow Presentation
11:30 – 12:00	Radha Mastandrea (UC Berkeley) Fellow Presentation
12:00 – 1:00	LUNCH
1:00 – 1:30	Gilad Kusne (NIST, University of Maryland) Teaching ML and Autonomous Science through Bootcamp, University Courses, and a physical platform
1:30 – 2:00	Sebastian Atalla (The University of North Carolina at Chapel Hill) Fellow Presentation
2:00 – 2:30	Cunwei Fan (University of Illinois at Urbana Champaign) Fellow Presentation
2:30 – 3:00	Karan Shah (Center for Advanced Systems Understanding) Fellow Presentation
3:00 – 3:30	COFFEE Break
3:30 – 4:00	Fatemeh Bagheri (The University of Texas at Arlington) Fellow Presentation
4:00 – 5:00	Alexis Knaub (American Association of Physics Teachers) & Andrew Elby (University of Maryland) Challenges and Pedagogy

Thursday, June 23	DSECOP 2022 Data Science in Physics Workshop
9:00 – 9:30	Wolfgang Losert (University of Maryland) & Joe Redish (University of Maryland) Linking Modern Content with Modern Pedagogy: The Physics for Life Scientists Course
9:30 – 10:00	Marilena Longobardi (University of Basel) Round Table 1: Data Science in Europe
10:00 – 10:30	Mohammad Soltanieh-ha (Boston University) Round Table 2: Tools
10:30 – 11:00	COFFEE Break
11:00 – 12:00	Linda Hung (Toyota Research) & Sebastian Schmidt (Facebook) & Lenny Campanello (Google) & Corey Hart (Lockheed Martin) Round Table 3: Preparing Students for Industry
12:00 – 1:00	LUNCH
1:00 – 1:15	Sanha Cheong (Stanford University) Developing & Teaching Statistics Course for Physics Students
1:15 – 1:30	Robert Craig (University of Virginia) Data Science at UVA
1:30 – 1:45	Ivo Dinov (University of Michigan) Integration of Data Science into the STEM Curricula
1:45 – 2:00	Karen Leighly (The University of Oklahoma) A Portfolio of Data Analytics Classes at University of Oklahoma
2:00 – 2:15	Jorge Munoz (The University of Texas at El Paso) Implementation of industry data science collaboration practices in undergraduate research and mentoring
2:15 – 2:30	Mark Neubauer (University of Illinois at Urbana-Champaign) Data Analysis and Machine Learning Education in the Physics Department at the University of Illinois
2:30 – 3:00	William Ratcliff (NIST, University of Maryland) Reflection Chat: What have we learned so far
3:00 – 3:30	COFFEE Break

3:30 – 4:00	William Ratcliff (NIST, University of Maryland) Discussion 1: Topic Coverage (Physics/Data Science)
4:00 – 4:30	Mohammad Soltanieh-ha (Boston University) Discussion 2: Preparation/Prerequisites (Python, Computation)
4:30 – 5:00	Everyone Discussion 3: Preparation for Unconference

Friday, June 24	DSECOP 2022 Data Science in Physics Workshop
9:00 – 9:30	Alexis Knaub (American Association of Physics Teachers) Discussion 4: Pedagogical considerations and challenges
9:30 – 10:30	Unconference
10:30 – 11:00	COFFEE Break
11:00 – 12:00	Fellows Panel
12:00 – 1:00	LUNCH



Thanks!

Any questions ?