## CU Systemwide Lands Recognition Statement

- As we gather, we honor and acknowledge that the University of Colorado's four campuses are on the traditional territories and ancestral homelands of the Cheyenne, Arapaho, Ute, Apache, Comanche, Kiowa, Lakota, Pueblo and Shoshone Nations. Further, we acknowledge the 48 contemporary tribal nations historically tied to the lands that comprise what is now called Colorado.

- Acknowledging that we live in the homelands of Indigenous peoples recognizes the original stewards of these lands and their legacies. With this land acknowledgment, we celebrate the many contributions of Native peoples to the fields of medicine, mathematics, government and military service, arts, literature, engineering and more. We also recognize the sophisticated and intricate knowledge systems Indigenous peoples have developed in relationship to their lands.

- We recognize and affirm the ties these nations have to their traditional homelands and the many Indigenous people who thrive in this place, alive and strong. We also acknowledge the painful history of ill treatment and forced removal that has had a profoundly negative impact on Native nations.

- We respect the many diverse Indigenous peoples still connected to this land. We honor them and thank the indigenous ancestors of this place. The University of Colorado pledges to provide educational opportunities for Native students, faculty and staff and advance our mission to understand the history and contemporary lives of Native peoples.

# Welcome

2nd Conference on Machine Learning in Heliophysics

March 21-25, 2022 – Boulder, CO (and elsewhere)
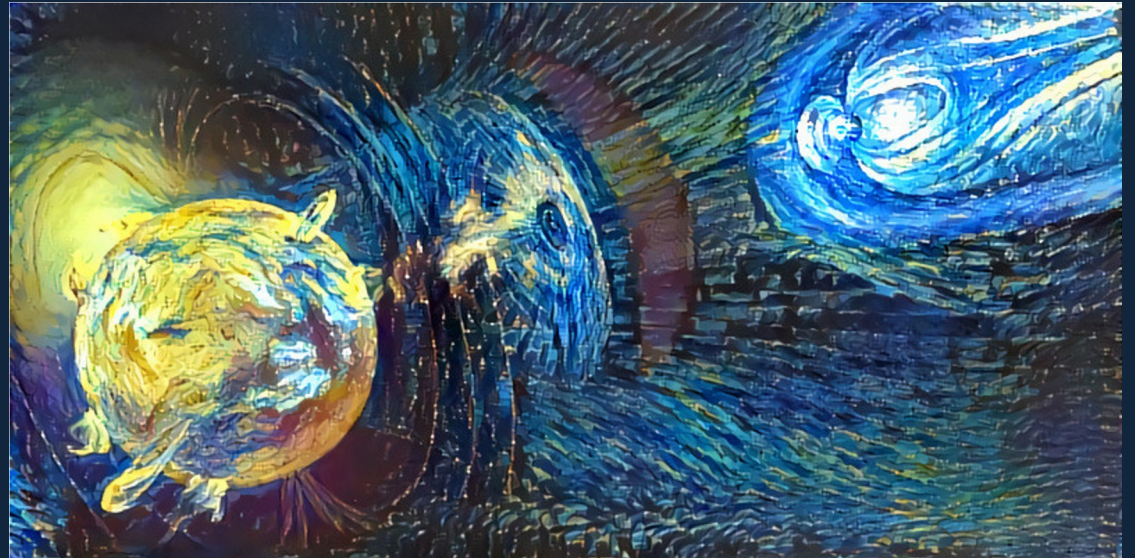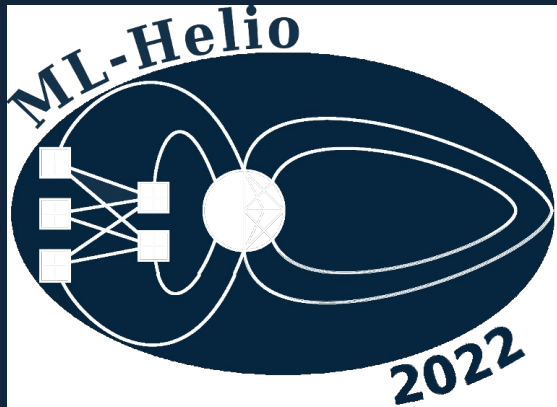
# 2nd  Conference on Machine Learning in Heliophysics

- A growing cross-disciplinary community with expertise in all of the sub-fields of heliophysics:

    - Solar Physics, Interstellar Medium, Magnetosphere, Ionosphere, Space Weather, etc.

- Overlapping interests in using the best available mathematical techniques to tackle and solve our problems

- A wide diversity of expertise and knowledge in machine learning

# 2nd Conference on Machine Learning in Heliophysics in Numbers

- ~190 participants (70 in-person + 120 virtual)

- 28 countries

- 10 invited talks

- 36 contributed talks

- 93 posters

- 3 tutorials

- 1 demo

# 2nd Conference on Machine Learning in Heliophysics

# Blind review

- 75 abstracts submitted for oral presentation

- 34 oral slots

- ~ 48% acceptance rate

- Each abstract reviewed by 3 referees
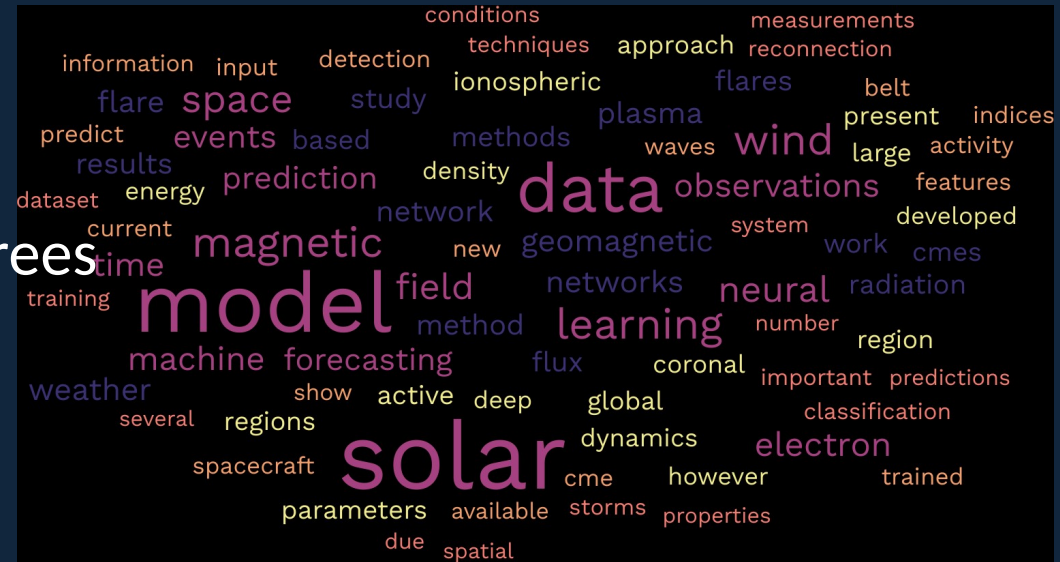
# 2ⁿᵈ  Conference on Machine Learning in Heliophysics

# Code of conduct

- Please review and follow our code of conduct **https://ml-helio.github.io/code_conduct.html**

- Don't be confrontational and treat everybody with respect

- Recognize that our diversity is a gift and a resource, not a barrier to the advancement of science

# Diversity

**Gender (speakers)**

33% Female

Male 67%

**Early careers**

45%

55% Early-career

**Countries**
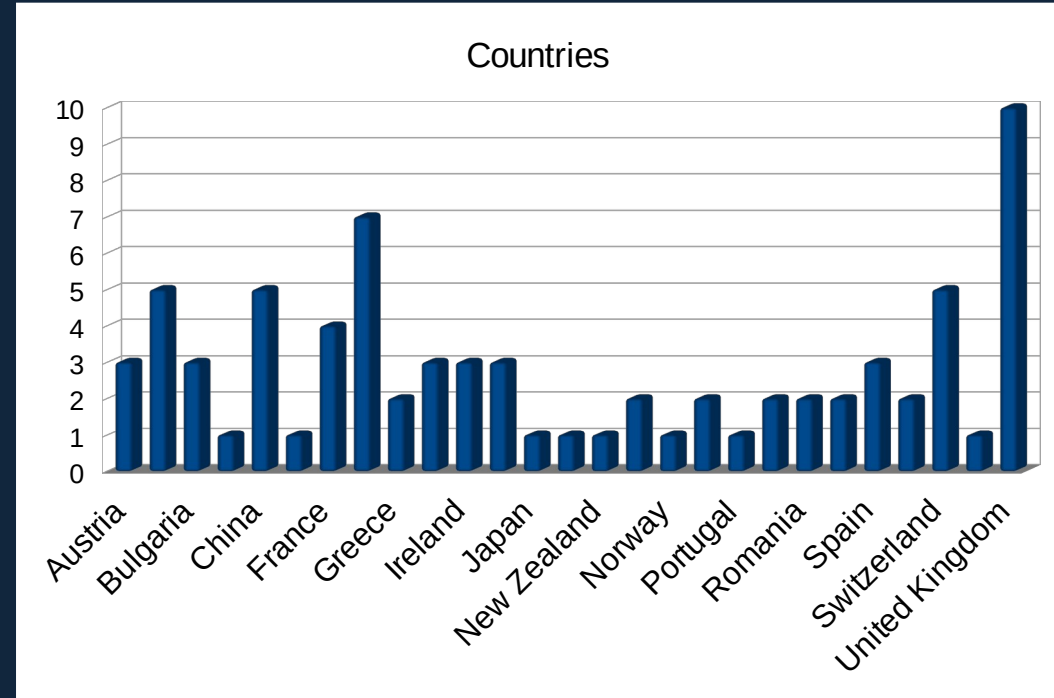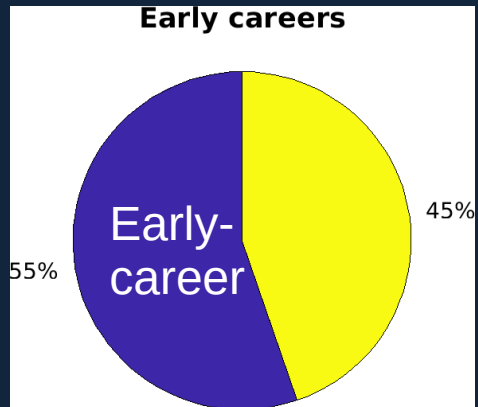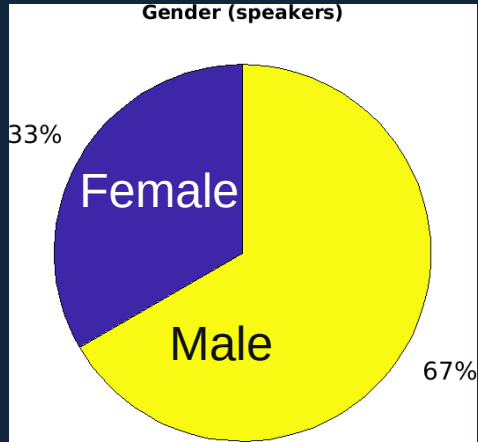
USA = 114 attendees

# 2nd Conference on Machine Learning in Heliophysics

## Scientific Organizing Committee

Abigail Azari (UC Berkeley)

Hazel Bain (CU Boulder)

Jacob Bortnik (UCLA)

Enrico Camporeale (CU/NOAA, chair)

Mark Cheung (LMSAL)

Veronique Delouille (ROB)

Farzad Kamalabadi (U. Illinois)

Michael Kirk (ASTRA)

Giovanni Lapenta (KU Leuven)

Stefan Lotz (SANSA)

Sophie Murray (Trinity College Dublin)

Naoto Nishizuka (NICT, Japan)

Pete Riley (Predictive Science Inc.)

Simon Wing (APL, Johns Hopkins)

## Local Organizing Committee

Michelle Ambruz

Curt Davis

Colin Mahoney

Amy Martinez

Linda Pendergrass

Virginia Schultz

# 2nd Conference on Machine Learning in Heliophysics

## Sponsors



Thanks to the generous contribution of our sponsors we have been able to support 30 attendees (~15%)

# 2ⁿᵈ Conference on Machine Learning in Heliophysics

# Special Issue

- We will have a special collection for articles relevant to this conference (open to anybody, not only conference attendees)

- It will be published by AGU, either as part of a JGR special collection or a new journal

- Manuscript submission will open sometime in April and the deadline for submitting will be in the Oct/Nov time frame.

- We will announce the url link and way to submit via the usual AGU and ML-Helio newsletters, and post this information on the ML-Helio website

# 2<sup>nd</sup> Conference on Machine Learning in Heliophysics

## Practical information

- <u>WiFi</u>
  - Eduroam (need to be set up)
  - UCB Guest (no password)
- <u>Slack</u> channel (link is in Whova)
- <u>Twitter</u> @Mlhelio

# Poster sessions

Posters are divided in two sessions :

A – Tuesday and B – Thursday

Physical posters can stay on the boards from Tuesday morning to Thursday evening.

All posters are available on Whova  (check them before the poster session)

Each Poster will be assigned a zoom break-out room.

Please post in the chat of your poster your time availability (when you are expected to sit in your break-out room).

In-person attendees are expected to stand at their poster during the poster session. There will be stand-up tables where they can use their device to communicate with virtual attendees.

# Oral sessions

Make sure your presentation is uploaded on the Google drive ahead of time.

Virtual speakers: share your screen on zoom

In-person speakers: a conference laptop (PC or Mac) is provided for you to use. Personal laptops can only be used with prior approval. Please stay within your allotted time (15 mins for contributed talks, 20 mins for invited talks)

Questions can be asked in the Whova chat or in the room.

All talks and Q&A will be recorded. If you don't agree to be recorded, please let us know (ahead of time).

# Ice-breaker Reception (Monday)
## Starts at 18:30. Embassy Suites by Hilton, 2601 Canyon Blvd, Boulder
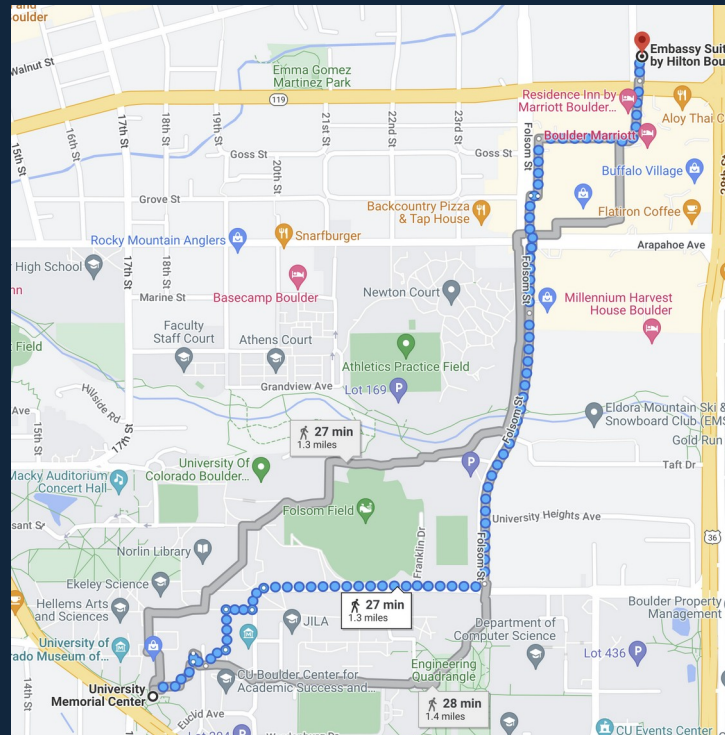
# Practical info

- Lunch will be served in the Ballroom
- Location of Restrooms: down the hallway to your left or around the corner by the Glenn Miller Ballrooms
- Emergency Exits: Down the stairwell and straight out the doors or around the corner to your right and through the double doors

# COVID

Please get tested if you feel sick!

Information on where to get tested or buy home test kit is available at the registration table

**Be in the know. Know what to do.**

**CU Conference Services is committed to keeping our guests notified with up-to-date and real-time information in the infrequent event of campus closures, extreme weather and other emergencies.  CUCS accomplishes this goal by loading your registration email and by providing a Keyword (see below) to opt-in to our automated RAVE Alert System on your mobile device.**

**Individuals simply text "CUCONFERENCE" to 81437. (Not case sensitive)**

**Individuals may end it by texting "STOP" at any time to 81437.  Alerts are sent to the registered email or to mobile devices via our text messaging service.**

**The University of Colorado Boulder is committed to providing timely warnings and/or emergency notifications for situations that represent a serious or continuing threat to the campus community and visiting guests.  If warranted, warnings may be followed by a clarification and/or instructional statement from CU Conference Services administration.**

**How to find additional information in an emergency**

 **• On your mobile device—Watch for text or e-mail alerts in the case of a campus closure or if there is a threat to personal safety.**

 **• On the web—Visit www.colorado.edu for detailed campus closure and emergency information and updates.**

 **• On the phone—Call the campus info line at 303-492-INFO (4636) for recorded information and updates relating to campus alerts.**

 **• By e-mail—Check your e-mail after an emergency for support and resource information.**

 **• On social media—Like CU Boulder on Facebook and follow @cuboulder and @cuboulderalerts on Twitter.**