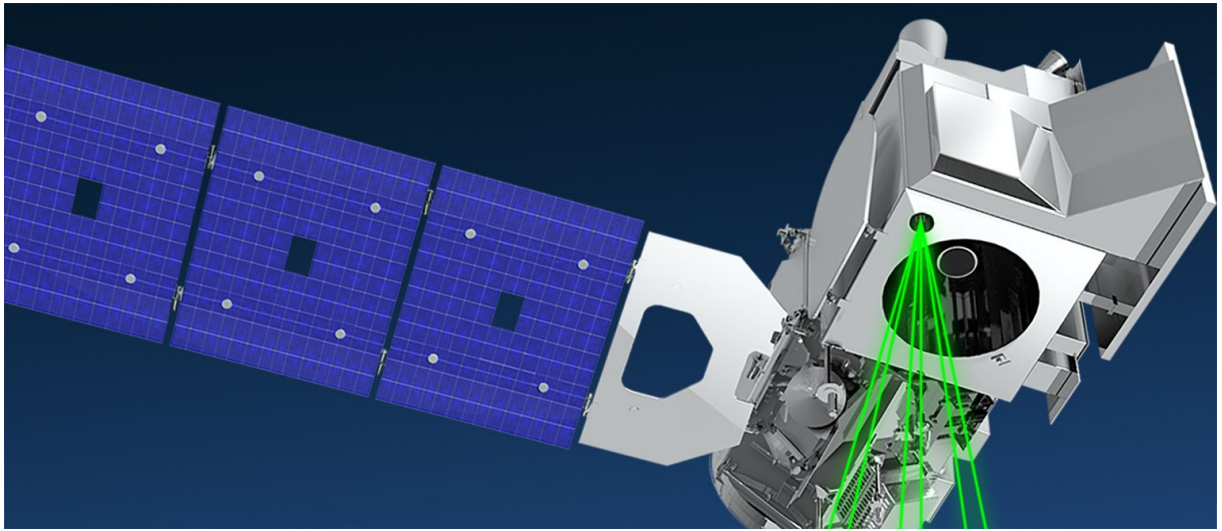
# Welcome to Cryospheric Sciences ICESat-2 Hackweek!

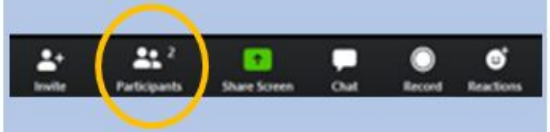


# Re-Naming Yourself

Let everyone else in Zoom know who you are.

**1**

On the bottom of your screen, click **Participants.**

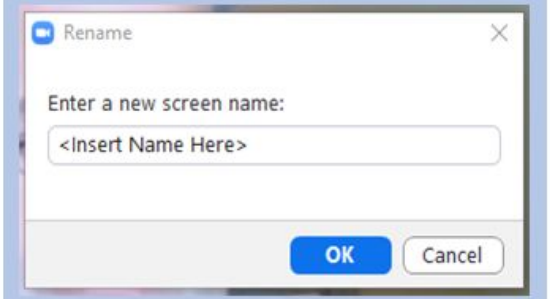



**2**

Find you and click **More.**


**3**

Enter your first & last name and click OK.



# Using the Chat Feature

Communicate with other attendees and the presenter

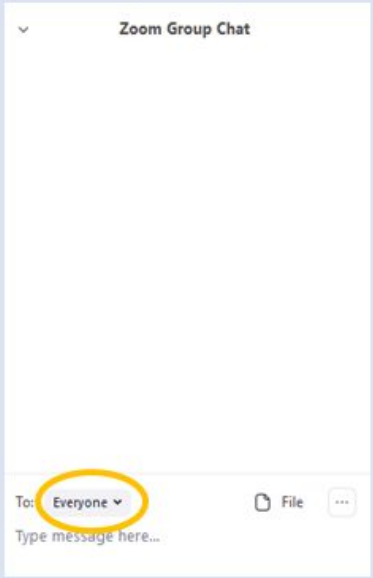
**1**

On the bottom of your screen, click **Chat.**


**2**

This will open chat feature.

Click the **drop down arrow** after "To:" to select who you want to send the chat to.



## Giving and getting feedback during a session

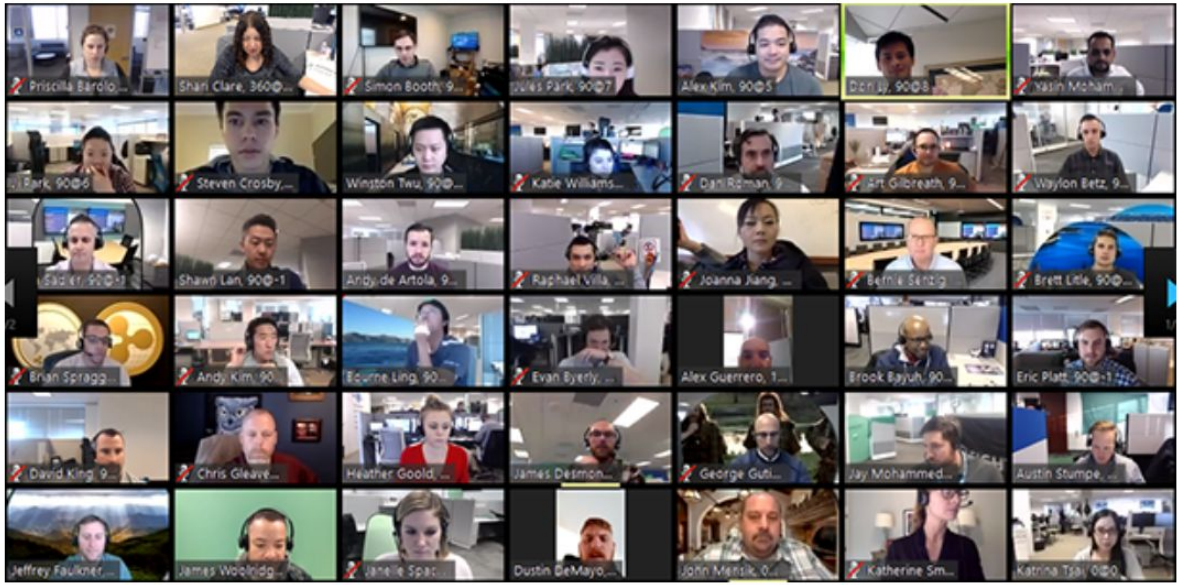
- We'll use Slack for synchronous conversations during tutorials
- Each tutorial will have its own slack channel:

**#tutorial-introduction**

- helpers/TAs will be monitoring Slack and answering your questions
- We will use the zoom chat for a few interactive activities

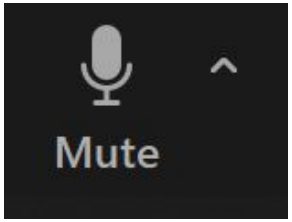
## Gallery versus speaker view

- Click Settings, and then click Video to display the video settings page.
- Enable the option Display up to 49 participants per screen in Gallery View. Note that if your computer does not meet the CPU requirements, this option is unavailable.



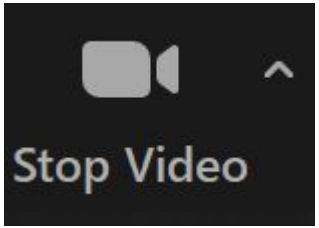
## Muting

- Please mute while not speaking
- It’s easy to forget you are not muted. We may mute you if needed to minimize distraction to speaker




## Video

- We invite you to turn video on when speaking
- Tutorials will be recorded: turn off video if you have a question
- Virtual background option



# Raising Your Hand

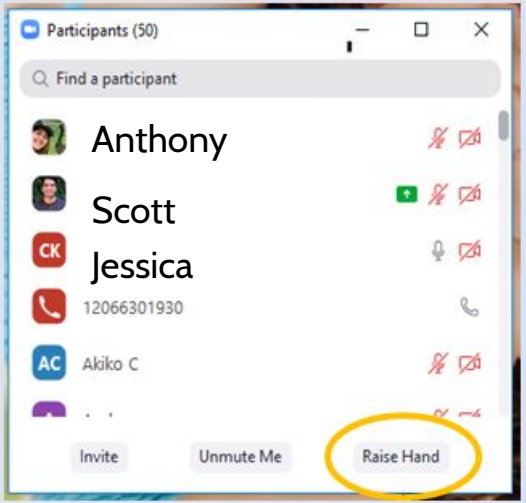
Let the presenter know you have something to say or that you're done with a task

**1**

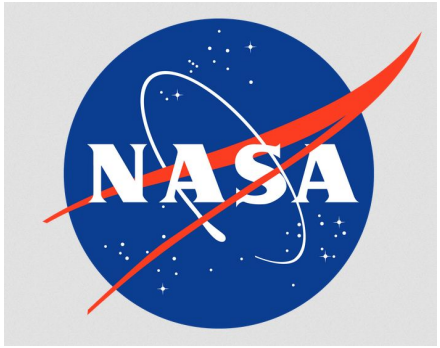
On the bottom of your screen, click **Participants.**


**2**

At the bottom of the participants list, click **Raise Hand.**



# ICESat-2 hackweek sponsors

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# Thank-you!

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ALEX HUYNH
ADMINISTRATIVE ASSISTANT
APL

JANE KOH
ADMINISTRATIVE SPECIALIST
ESCIENCE INSTITUTE

Charley Haley
Collaboration Designer

# Thank-you!

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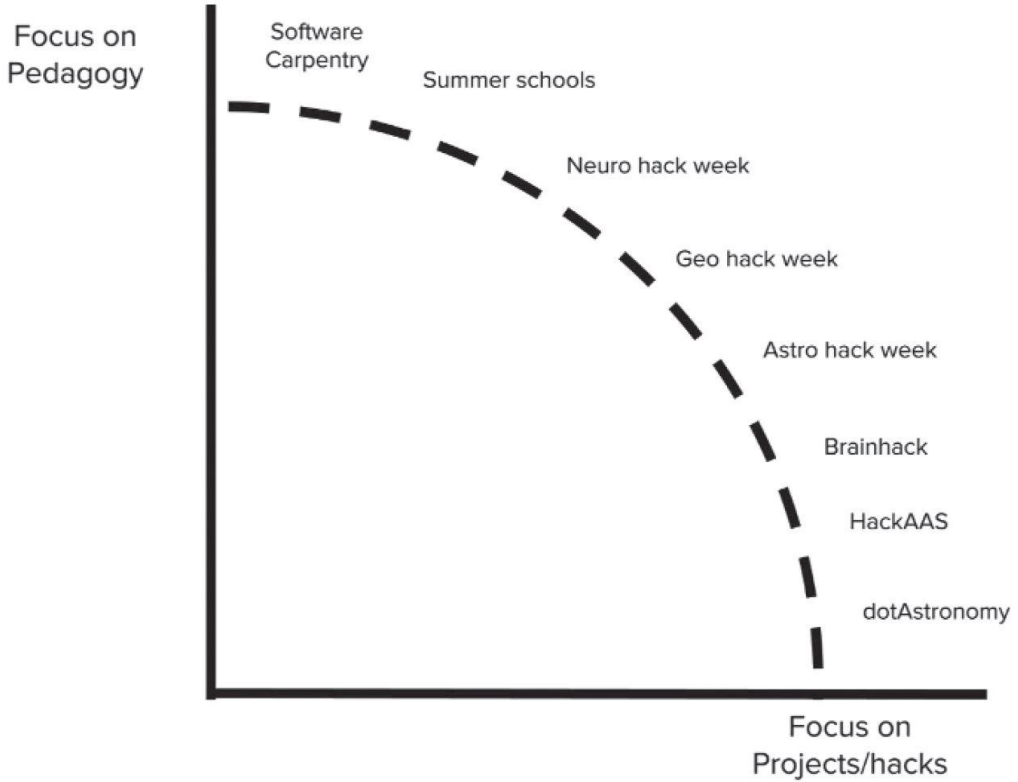
# Hackweeks

Peer learning




Collaboration

# What is a hackweek?

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## Hack weeks as a model for data science education and collaboration

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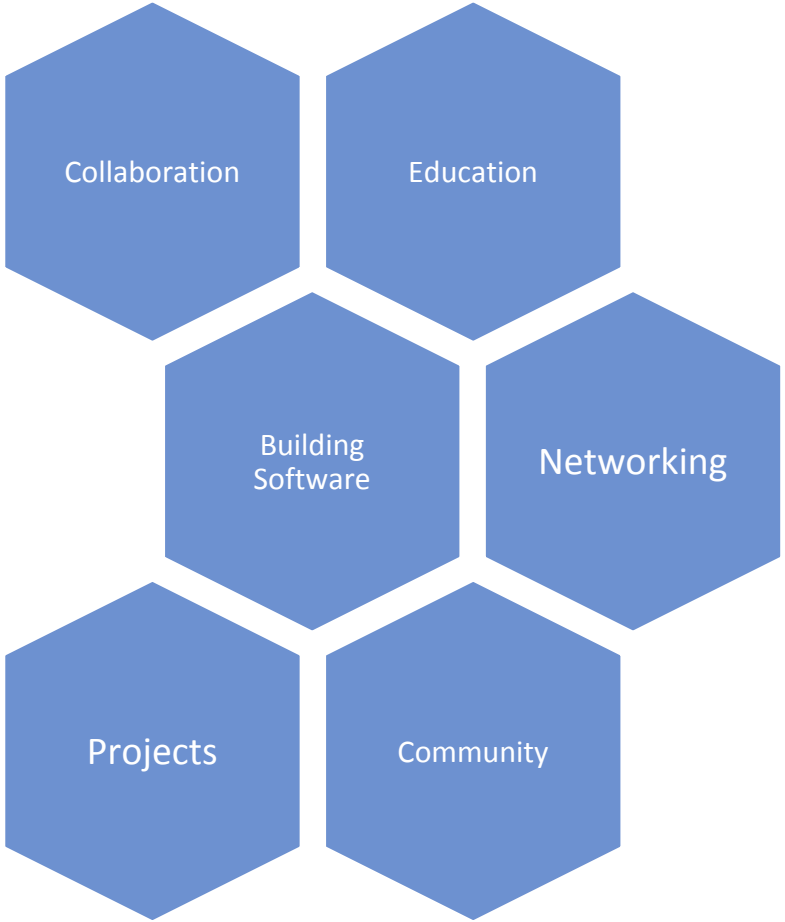
**Across many scientific disciplines, methods for recording, storing, and analyzing data are rapidly increasing in complexity. Skillfully using data science tools that manage this complexity requires training in new programming languages and frameworks as well as immersion in new modes of interaction that foster data sharing, collaborative software development, and exchange across disciplines. Learning these skills from traditional university curricula can be challenging because most courses are not designed to evolve on time scales that can keep pace with rapidly shifting data science methods. Here, we present the concept of a hack week as an effective model offering opportunities for networking and community building, education in state-of-the-art data science methods, and immersion in collaborative project work. We find that hack weeks are successful at cultivating collaboration and facilitating the exchange of knowledge. Participants self-report that these events help them in both their day-to-day research as well as their careers. Based on our results, we conclude that hack weeks present an effective, easy-to-implement, fairly low-cost tool to positively impact data analysis literacy in academic disciplines, foster collaboration, and cultivate best practices.**

data science | education | interdisciplinary collaboration | reproducibility

event (Fig. 1). Pedagogically focused events follow a classic academic model where novices learn new skills from experts. This model tends to focus on a one-way flow of information from instructor to student and is usually targeted toward participants in the training phase of their career. On the other end of the spectrum, project-focused workshops emphasize collaborative activities using existing skills, leading to the common perception that they are designed for technical experts. This may limit their audience. To bridge this gap, we describe here a model that we have implemented: "Hack Weeks" that aim to capitalize on the advantages of each of these models. These week-long events combine structured periods focused on pedagogy (often with an emphasis on statistical and computational techniques) and less structured periods devoted to hacks and creative projects, with the goal of encouraging collaboration and learning among people at various stages of their career.

We have run eight such hack week events: four focused on astronomy and two each focused on neuroscience and geoscience. Here we share the philosophy behind the hack week model, results from surveys of participants, practical lessons we have learned in organizing these events, and recommendations for future hack weeks. *SI Appendix* provides additional details on the practical aspects of organizing these events.

# Hackweek Mission



# Conversation Cafe

**Round 1 (10 minutes total)**

1. Introduce yourself & your institutional affiliation
2. Share your picture using screen share at the bottom of the Zoom window
3. In 90 seconds, tell us where this picture was taken and why it inspires you and your work
4. Stop sharing your screen & nominate the next person to share next

**Round 2 (10 minutes total)**

1. In 90 seconds, tell us what you're excited about in your work in the Cryosphere & in Data Science?

   **Go more meta than micro with your details*
2. Nominate someone to share next

Make a note of (or Slack chat) those you would like chat with later

# Code of Conduct

# We Continuously Strive to be Inclusive

Members of this community recognize that we can all contribute to making our shared spaces welcoming, accessible, and inclusive. We will not discriminate against others based on their social or cultural backgrounds or identities. We will work towards minimizing the effects of power imbalances and offering diverse ways to participate as the default, rather than the exception. We will do this by listening deeply, and by staying engaged and curious in other's perspectives, even during challenging conversations.

# We Empower One Another

We believe in a culture of fluid collaboration and participation through which we empower one another to explore and exchange knowledge, resources, and opportunities as a community.

# We Learn and Share

We will cultivate a space where we can learn from and grow with each other, and we make room for not knowing. We recognize that we are all students and teachers at the same time and we all bring skills and resources that we can share.

# We Trust - and Hold Space for - One Another

We make an individual and shared commitment to cultivating hospitable community spaces founded on trust, open communication, and personal accountability. This commitment will support the expression of a range of emotional states including joy, vulnerability, and uncertainty, without fear of incurring harm.

# We Express Gratitude and Recognition

Giving thanks and acknowledgement for contributions, whether they be knowledge, experience, or other forms of support, is an important part of how we interact with each other. In tutorials, projects, group presentations and code repositories, we will set up a mutually-agreed upon system for attribution of ideas and effort. When in doubt, we will ask each other if they approve of the ways in which we plan to use and build on each other's ideas and content.

**We Continuously Strive to be Inclusive**

**We Empower One Another**

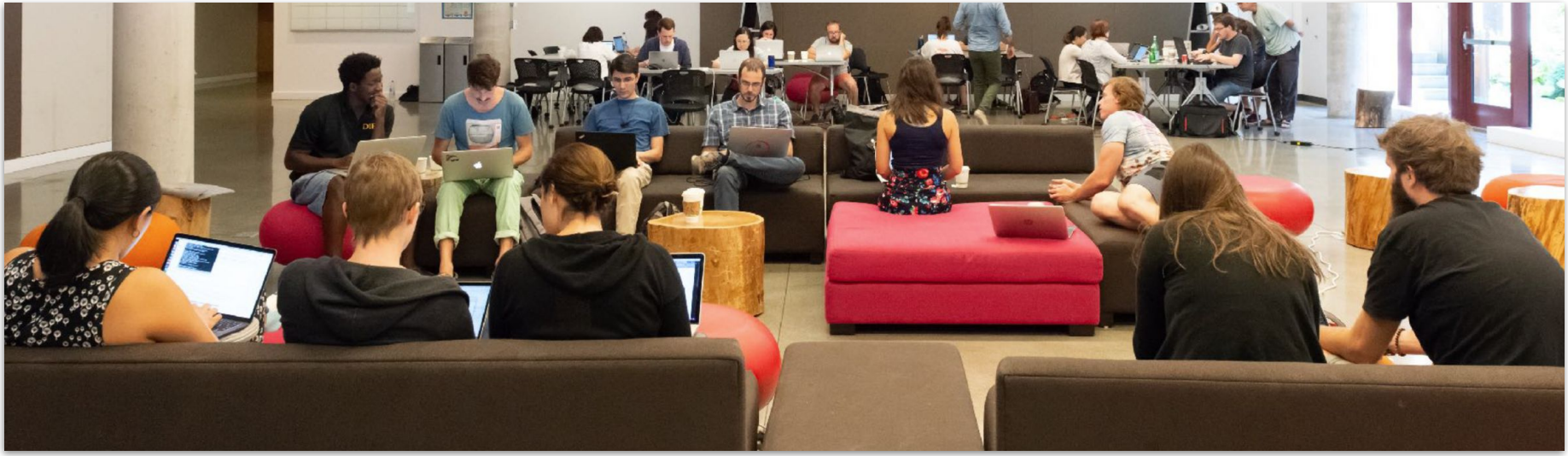
**We Learn and Share**

**We Trust - and Hold Space for - One Another**

**We Express Gratitude and Recognition**

# Projects/Hacking

Share your ideas in the #project_ideas channel!



# What inspires our work

# What is exciting about our work in the Cryosphere & Data Science