JWebbinar Overview

Data Analysis Training for JWST

- JWebbinars provide hands-on instruction on common data analysis methods for JWST observations.
- Entirely Virtual Classes
- Small class sizes (~40) to encourage interaction
- Virtual programming environment
  - AWS JupyterHub Instance
- Materials and videos are made public after the event
  - JWebbinar 1&2 notebooks/presentations are available
  - Videos will be made available on the JWSTObserver YouTube Channel
- Learning goals include:
  - Understanding the JWST pipeline processing steps
  - Familiarity with JWST data products
  - Data visualization
  - Introduction to tools and techniques for data analysis in different modes.

JWebbinar Committee Members:
- Cami Pacifici (Chair, CSA)
- Susan Mullally (WMO)
- Patrick Ogle (User Support)
- Amaya Moro-Martín (SMO)
- Tim Rawle (ESA)
- Erik Tollerude (DMD/DSMO)
- Duncan Farrah (JSTUC)

https://www.stsci.edu/jwst/science-execution/jwebbinars
Course Offerings

• #1 Pipeline Information and Data Products
  - Introduction to resources, pipeline stages, JWST data products and data models
  - ~100 participants, ~120 on the waiting list
• #2 Introduction to the JWST Data Analysis Tools
  - Specutils, Specviz, Mosviz and Cubeviz workflow
  - ~120 participants, ~120 on the waiting list
• #3 Pipeline: Imaging Mode
  - Running the pipeline for imaging
  - 150 participants, no waiting list
• #4 Pipeline: Spectroscopic Mode
  - Registration opened May 3
  - ~190 requests
• #5 MIRI and NIRSpec IFU
  - Registration opened May 15, ~50 registrants
• #6 NIRCam and MIRI Point Source Imaging
  - Registration opened June 1, ~60 registrants

Possible Future Offerings this year

• NIRSpec MSA
• NIRISS and NIRCam WFSS
• AMI and Coronagraphy with JWST
• Time Series Observations
• Repeat #1 and #2
BlueJeans Presentation

Virtual Environment

Slack for Chatting
Stats from JWebbinars 1--3

About the participants:

- 50% work at Universities
- 60% are students and postdocs
- 55% identify as men / 37% women / 7% Not Respond

Other countries include:
- Chile, Peru, Brazil, South Korea, Australia, Japan, India
Stats from Post-Class Survey

Post Class Survey (~100 responses)

- 94% indicated that JWebbinars met or exceeded expectations.
- ~60% had sufficient JWST knowledge (5% insufficient)
- ~70% had sufficient python knowledge
- 81% said the class length is just right
- Most like the speed of the class, but no one says it is too slow.

Q7 Rate the length of the class. (Pick one.)

Q8 Was your knowledge of the following sufficient to understand the material?

Answered: 98  Skipped: 5

JWST

Python
JWebbinar Plans

Plans this Semester:

- Classes continue at pace of ~2 different topics per month (2-6 events) until September.
- Repeat at least the first 2 JWebbinars in August/September
- Increased acceptance fraction per event (finding only ~75% attend)

Future JWebbinars:

- Next semester starts after commissioning with some repeated content.
- Considering community-led JWebbinars
  - STScI could provide the infrastructure (science platform, registration system etc.) while the teams provide the content to train on specific areas of data analysis.
  - Could start during commissioning since they do not rely on STScI INS staff.