UKMO & USAF JEDI Academy Agenda
December 7 - 11, 2020
Attendance Virtually via Zoom

IMPORTANT

Please note that in order to participate in the Academy each day, you MUST complete the prerequisites listed below in red for each day *prior* to that day.

We will not be providing any time during the Academy to watch lectures and you will need information from the lectures to complete the practicals.

Zoom Meeting Information
Meeting Link: https://zoom.us/j/99739546130?pwd=ZkZrckhJZzVoYWRFSno4V3k3VFNxUT09

Meeting ID: 997 3954 6130
Passcode: 451013

Practical Time Structure
- 5 minutes for topic introduction
- 1 hour + 15 minutes of work time
- 10 minutes for practical debrief

Slido
As you watch the lecture videos, please add any questions you would like addressed during the Q/A session to the Slido. Slido will open for posting on Friday, December 5th. Note that there is a 160 character limit for questions, but you may submit multiple questions. During the Q/A sessions, you will also be able to unmute yourself and elaborate on your posted question(s). Please enter your name when you post so that we can ask you if we need further clarification.

GitHub Account
As part of the Friday practical, you will be required to push code to GitHub from your Amazon EC2 instance. So, you will need to know how to set up your GitHub credentials. In most cases, this just involves knowing your GitHub username and password. However, if you have set up two-factor authentication, you will need to either set up a personal access token or upload your ssh key. For further information, see the GitHub documentation here. If you have any further questions about this please email Mark at miesch@ucar.edu.

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Monday
December 7, 2020

Please watch the following lectures BEFORE Monday, December 7:
- Why OOPS/JEDI?
- Building and Running JEDI
- OO Programming
- OOPS Structure and Data Flow

MT	GMT	Activity	Presenter
7:30 - 7:45 am	2:30 - 2:45 pm	Brief Introduction to Academy Introduction to Teaching Team Day Introduction: JEDI Structure	Yannick, Kat
7:45 - 8:25 am	2:45 - 3:25 pm	Lecture Q/A Session	JEDI Core Team
8:25 - 9:55 am	3:25 - 4:55 pm	Getting Started with JEDI	Mark
9:55 - 10:05 am	4:55 - 5:05 pm	Break	
10:05 - 11:35 am	5:05 - 6:35 pm	Running JEDI (H(x), 3denvar, 4denvar)	Mark
11:35 - 11:45 am	6:35 - 6:45 pm	Day Debrief and Feedback Session	Yannick, Kat

Tuesday
December 8, 2020

Please watch the following lectures BEFORE Tuesday, December 8:
- OOPS Observation Space
- Configurations
- Observation Operators (UFO) and QC
- IODA and Interface

MT	GMT	Activity	Presenter
7:30 - 7:35 am	2:30 - 2:35 pm	Day Introduction: Observations	Yannick
7:35 - 8:15 am	2:35 - 3:15 pm	Lecture Q/A Session	JEDI Core Team
8:15 - 9:45 am	3:15 - 4:45 pm	Running JEDI	Dan
9:45 - 9:55 am	4:45 - 4:55 pm	Break	
9:55 - 11:25 am	4:55 - 6:25 pm	Add Observations	Steve
11:25 - 11:35 am	6:25 - 6:35 pm	Day Debrief and Feedback Session	Yannick, Kat

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Wednesday
December 9, 2020

Please watch the following lecture videos BEFORE Wednesday, December 9:
- BUMP Science
- JEDI C++ Part 1
- OOPS Model Space
- Model Interfaces and GetValues

Also, please double check that your GitHub credentials are set up to work with your Amazon node. If you have issues with this, please contact Mark at miesch@ucar.edu.

MT	GMT	Activity	Presenter
7:30 - 7:35 am	2:30 - 2:35 pm	Day Introduction: Model Space	Yannick
7:35 - 8:15 am	2:35 - 3:15 pm	Lecture Q/A Session	JEDI Core Team
8:15 - 9:45 am	3:15 - 4:45 pm	Modify, Add QC	Ryan
9:45 - 9:55 am	4:45 - 4:55 pm	Break	
9:55 - 11:25 am	4:55 - 6:25 pm	3D-FGAT, 4D-Var	Dan
11:25 - 11:35 am	6:25 - 6:35 pm	Day Debrief and Feedback Session	Yannick, Kat

Thursday
December 10, 2020

Please watch the following lecture videos BEFORE Thursday, December 10:
- BUMP Usage
- JEDI C++ Part 2
- DA Algorithms
- Unit Testing and Writing Tests

MT	GMT	Activity	Presenter
7:30 - 7:35 am	2:30 - 2:35 pm	Day Introduction: Science/Testing	Yannick
7:35 - 8:15 am	2:35 - 3:15 pm	Lecture Q/A Session	JEDI Core Team
8:15 - 9:45 am	3:15 - 4:45 pm	Advanced (Model or Observations)	Dan
9:45 - 9:55 am	4:45 - 4:55 pm	Break	
9:55 - 11:25 am	4:55 - 6:25 pm	Add Test	Maryam
11:25 - 11:35 am	6:25 - 6:35 pm	Day Debrief and Feedback Session	Yannick, Kat

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Friday December 11, 2020			
Please complete these tasks BEFORE Friday, December 11, 2020: ● Watch the PR and Code Review lecture ● Make sure that you are able to log into your GitHub account and that your credentials are set up and ready to be used with your Amazon node. If you have issues with this, please contact Mark at miesch@ucar.edu.			
MT	**GMT**	**Activity**	**Presenter**
7:30 - 7:35 am	2:30 - 2:35 pm	Day Introduction: How to Contribute	Yannick
7:35 - 8:15 am	2:35 - 3:15 pm	Lecture Q/A Session	JEDI Core Team
8:15 - 10:00 am	3:15 - 5:00 pm	PR and Code Review	Mark
10:00 - 10:10 am	5:00 - 5:10 pm	Break	
10:10 - 10:30 am	5:10 - 5:30 pm	Day Debrief, General Academy Feedback Session	Yannick, Kat