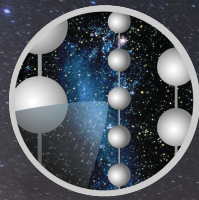
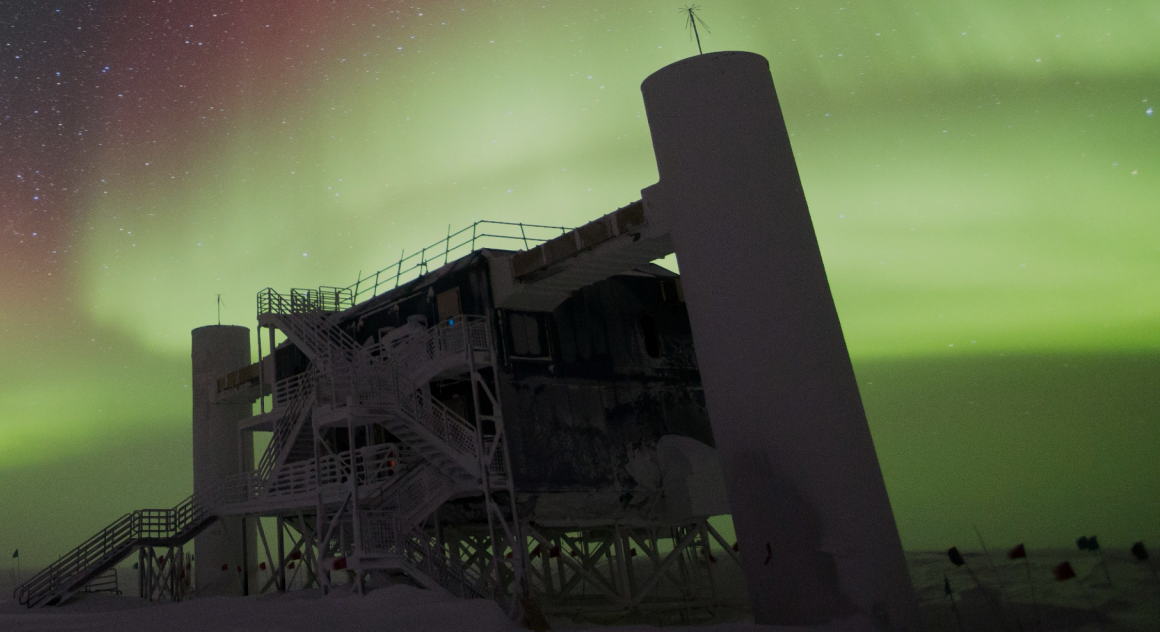


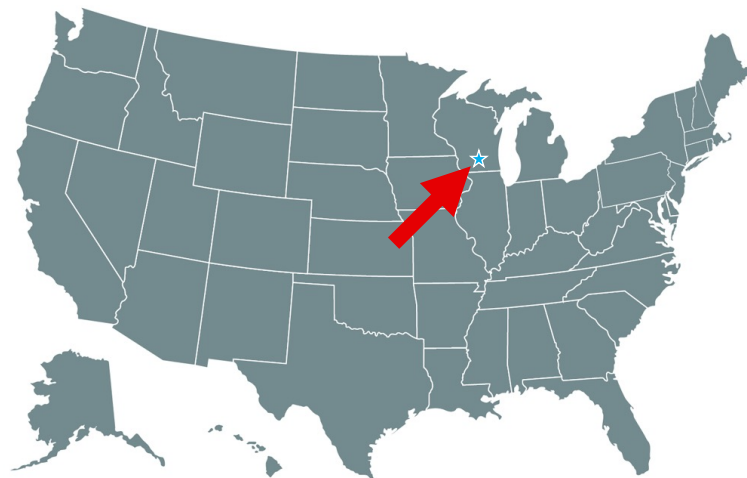
Welcome to IceCube Bootcamp 2021!



ICECUBE
SOUTH POLE NEUTRINO OBSERVATORY

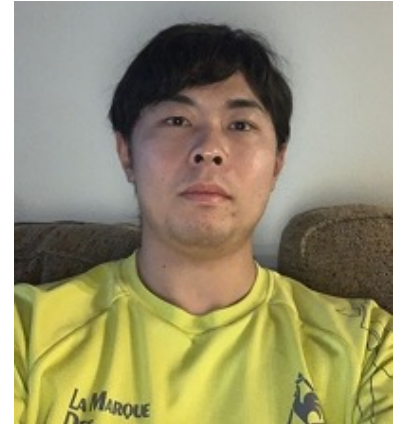


Welcome!



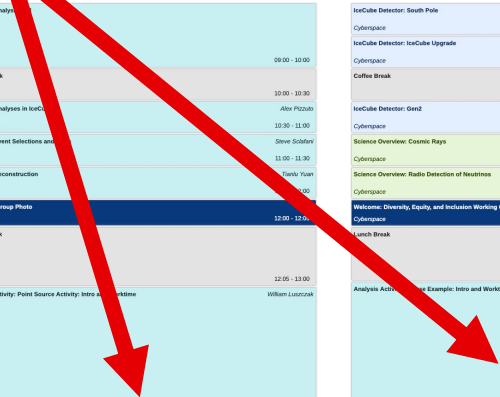
Local Organizing Committee

- Alex Pizzuto (grad student)
- Aswathi Balagopal V. (postdoc)
- Kayla Leonard DeHolton (grad student)
- Yosuke Ashida (postdoc)



Bootcamp Overview

- Monday-Friday 9am-4pm central time zone
 - 20-30 minute coffee breaks in mornings and afternoons
 - ~1 hour lunch breaks
- Thurs & Fri afternoon: group work time in breakout rooms



Welcome: Introductions Cyberspace IceCube Detector: IceCube Detector Cyberspace Science Overview: IceCube Science Cyberspace Coffee Break 10:10 - 10:30 Science Overview: IceCube in Multi-Messenger Astronomy Cyberspace Computing: Computer Setup "Office Hours" IceCube Bootcamp Cyberspace Lunch Break 12:00 - 13:00 Computing: Intro to Python Cyberspace Computing: Advanced Python Cyberspace Coffee Break 14:30 - 15:00 Statistics: Stats 1 Cyberspace	IceCube Software: Introduction to IceTray Cyberspace Coffee Break 10:30 - 11:00 IceCube Software: I3File Tools and Visualization Cyberspace Lunch Break 12:00 - 13:00 Computing: Coding Best Practices Cyberspace Computing: Distributed Computing Cyberspace Coffee Break 14:30 - 15:00 Statistics: Stats 2 Cyberspace	IceCube Software: Simulation Cyberspace Coffee Break 10:00 - 10:30 IceCube Detector: Calibration and Ice Models Cyberspace Lunch Break 12:30 - 13:30 IceCube Software: Snowstorm Physics: Neutrino Physics Physics: Detector Physics Cyberspace	Analysis: Analysis Cyberspace Coffee Break 10:00 - 10:30 Analysis: Analyses in IceC Cyberspace Analysis: Event Selections and Cyberspace Analysis: Reconstruction Cyberspace Welcome: Group Photo Cyberspace Lunch Break 12:00 - 12:30 12:00 - 13:00 Analysis Activity: Point Source Activity: Intro to Cyberspace	IceCube Detector: South Pole Cyberspace IceCube Detector: IceCube Upgrade Cyberspace Coffee Break 10:00 - 10:30 IceCube Detector: Gen2 Cyberspace Science Overview: Cosmic Rays Cyberspace Science Overview: Radio Detection of Neutinos Cyberspace Welcome: Diversity, Equity, and Inclusion Working Group Introduction Cyberspace Lunch Break 12:00 - 12:30 12:30 - 13:00 Analysis Activity: Point Source Example: Intro and Worktime Cyberspace
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Special Sessions

Computer Set Up
Today before lunch

Questions about LDAP,
jupyterhub, etc.

Social Event
Wednesday 4-6pm

Trivia Night!

Group Photo
Thursday before lunch

Welcome: Introductions	Alex Fitzcutt, Assenit Bola	09:00 - 09:10
Cyberspace		
IceCube Detector: IceCube Detector	John Kolby	
Cyberspace		09:10 - 09:40
Science Overview: IceCube Science	Francis Halzen	
Cyberspace		09:40 - 10:10
Coffee Break		
		10:10 - 10:30
Science Overview: IceCube in Multi-Messenger Astronomy	Kir Fang	
Cyberspace		10:30 - 11:00
Computing: Computer Setup "Office Hours"	IceCube Bootcamp	
		11:00 - 12:00
Cyberspace		
Lunch Break		
		12:00 - 13:00
Computing: Intro to Python	Abigail Bishop	
Cyberspace		13:00 - 13:45
Computing: Advanced Python	Kyle Leonard	
Cyberspace		13:45 - 14:30
Coffee Break		
		14:30 - 15:00
Statistics: Stats 1	Volker Belz	
Cyberspace		15:00 - 16:00

IceCube Software: Introduction to IceTray	Alex Ollas	
Cyberspace		09:00 - 10:30
Coffee Break		
		10:30 - 11:00
IceCube Software: IFFIc Tools and Visualization	Kevin Maghner	
Cyberspace		11:00 - 12:00
Lunch Break		
		12:00 - 13:00
Computing: Coding Best Practices	Alex Ollas	
Cyberspace		13:00 - 13:30
Computing: Distributed Computing	David Schulz	
Cyberspace		13:30 - 14:30
Coffee Break		
		14:30 - 15:00
Statistics: Stats 2	William Luszczak	
Cyberspace		15:00 - 16:00

IceCube Software: Simulation	Juan Carlos Diaz-Velez	
Cyberspace		09:00 - 10:00
Coffee Break		
		10:00 - 10:30
IceCube Detector: Calibration and Ice Models	Dawn Williams	
Cyberspace		10:30 - 12:30
Lunch Break		
		12:30 - 13:30
IceCube Software: Snowstorm	Benjamin Smithers	
Cyberspace		13:30 - 14:00
Physics: Neutrino Physics	Manuel Silva	
Cyberspace		14:00 - 14:30
Physics: Detector Physics	Justin Vandenbroucke	
Cyberspace		14:30 - 15:00
Social Event: Trivia Night	IceCube Bootcamp, Kyle Leonard	
Cyberspace		16:00 - 18:00

Analysis: Analysis Call		
Cyberspace		09:00 - 10:00
Coffee Break		
		10:00 - 10:30
Analysis: Analyses in IceCube	Alex Fitzcutt	
Cyberspace		10:30 - 11:00
Analysis: Event Selections and BDTs	Steve Schaffer	
Cyberspace		11:00 - 11:30
Analysis: Reconstruction	Tianlu Yuan	
Cyberspace		11:30 - 12:00
Welcome: Group Photo		
Cyberspace		12:00 - 12:05
Lunch Break		
		12:00 - 13:00
Analysis Activity: Point Source Activity: Intro and Worktime	William Luszczak	
Cyberspace		13:00 - 16:00

IceCube Detector: South Pole	Michael DuVernois	
Cyberspace		09:00 - 09:30
IceCube Detector: IceCube Upgrade	Kaef Hansen	
Cyberspace		09:30 - 10:00
Coffee Break		
		10:00 - 10:30
IceCube Detector: Gen2	Abrecht Karle	
Cyberspace		10:30 - 11:00
Science Overview: Cosmic Rays	Lu Lu	
Cyberspace		11:00 - 11:30
Science Overview: Radio Detection of Neutinos	Abigail Bishop	
Cyberspace		11:30 - 12:00
Welcome: Diversity, Equity, and Inclusion Working Group Introduction	Ellen Buckley	
Cyberspace		12:00 - 12:10
Lunch Break		
		12:10 - 13:00
Analysis Activity: Diffuse Example: Intro and Worktime	Manuel Silva	
Cyberspace		13:00 - 16:00

Useful info

- Timetable

<https://events.icecube.wisc.edu/event/134/timetable>

- Jupyterhub

<https://jupyterhub.icecube.wisc.edu/>

- Slack: join #bootcamp2021