Early Career Scientists: Welcome!

Marjon Moulai Bootcamp 2022

Borrowed heavily from Delia Tosi's 2016 Bootcamp talk

Maustralia University of Adelaide

BELGIUM

UCLouvain Université libre de Bruxelles Universiteit Gent Vrije Universiteit Brussel

E CANADA

SNOLAB University of Alberta-Edmonton

DENMARK

University of Copenhagen

GERMANY

Deutsches Elektronen-Synchrotron ECAP, Universität Erlangen-Nürnberg Humboldt–Universität zu Berlin Karlsruhe Institute of Technology Ruhr-Universität Bochum RWTH Aachen University Technische Universität Dortmund Technische Universität München Universität Mainz Universität Wuppertal Westfälische Wilhelms-Universität Münster

HE ICECUBE COLLABORATION

ITALY University of Padova

JAPAN Chiba University

REW ZEALAND University of Canterbury

SOUTH KOREA Sungkyunkwan University

SWEDEN Stockholms universitet Uppsala universitet

+ SWITZERLAND Université de Genève

TAIWAN Academia Sinica

UNITED KINGDOM University of Oxford

UNITED STATES

Clark Atlanta University Drexel University Georgia Institute of Technology Harvard University Lawrence Berkeley National Lab Loyola University Chicago Marguette University Massachusetts Institute of Technology Mercer University Michigan State University

Ohio State University Pennsylvania State University South Dakota School of Mines and Technology Southern University and A&M College Stony Brook University University of Alabama University of Alaska Anchorage University of California, Berkeley University of California, Irvine University of Delaware University of Kansas

319 People 56 Institutions **14** Countries





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The Swedish Research Council (VR) University of Wisconsin Alumni Research Foundation (WARF) US National Science Foundation (NSF)

icecube.wisc.edu

Useful resources

IceCube information lives in a variety of places.

I suggest you double check that what you find is not obsolete!

- Wiki: <u>https://wiki.icecube.wisc.edu/</u>
 - Working groups, phone calls, analyses, papers
- Docushare: https://docushare.icecube.wisc.edu/dsweb/HomePage
- Software: https://software.icecube.wisc.edu/

• Google Drive:

https://drive.google.com/drive/folders/0ByNbmxZGFYM7QUxJWXINcUNrLVE?resourcekey=0 -qi3LE1suN3PJhjPGDaPg1A&usp=sharing

- Mailing lists: http://lists.icecube.wisc.edu/
- Slack: https://icecube-spno.slack.com/
- Galleries: <u>https://gallery.icecube.wisc.edu/internal/main.php</u> <u>https://icecube.wisc.edu/gallery/</u>



Some Slack channel recommendations

#idontgetit Ask IceCube-related questions you don't know where else to ask, or that you want to ask anonymously

#ecs For Early Career Scientists (ECS)

#icecube-it IT related issues: "Is cobalt/the cluster down?"

#banana-party Informal social events/organizing: "Does anyone at Bootcamp want to go to the Terrace?"

#software "Can someone add me to the IceCube github?"

#off-topic

#gradstudents

#job-postings

#icecube



How does the collaboration work?

- Governance document version 9.1:
 - <u>https://res.cloudinary.com/icecube/images/v1646848844/lceCube-governance-v9-1-20220307/lceCube-governance-v9-1-20220307.pdf</u>
- Ever up-to-date governance document on:
 - <u>https://icecube.wisc.edu/collaboration/organization/</u>
- IceCube Collaboration Board (ICB):
 - Comprised of 1-2 PIs from each institution.
 - Meets a few times during/around each collaboration meeting.
 - Each institution votes with a weight, $w = int(\sqrt{\# PhDs})$
 - Early Career Scientists (ECS) get 1 vote
- Fee is paid by each institution to the "Common Fund". The fee is proportional to the number of PhD scientists.
- Ignacio Taboada is our current spokesperson



Early Career Scientists (ECS)

- "Member of the IceCube collaboration who has received their Ph. D. within 7 years of the most recent past January 1st, but who has not received an assistant professor or tenured position; or who is a graduate student who has been on the author list for two years."
- There are two ECS representatives:
 - Marjon Moulai (WIPAC, 01/2022 01/2024)
 - Brian Clark (MSU, 01/2021 01/2023)
 - Elected by ECS. Serve 2-year terms.
- ECS meetings:
 - One at each collaboration meeting. Can be more, virtually, throughout the year.
 - Bring up young scientists' issues.
- ECS reps present at ICB meetings.
- ECS gets 1 vote at ICB.



When do I become an author?

- "As a rule collaborators may become authors six months after joining the collaboration. They are normally removed from the list one year after leaving. This period may be extended in special cases of former collaborators who contributed essential effort to the construction of IceCube."
- Institutional leads add members to the author list.
- Author list: <u>https://authorlist.icecube.wisc.edu/icecube</u> (searchable by date)



How do I do an IceCube analysis?

See page 1 <u>https://wiki.icecube.wisc.edu/images/0/0f/Analysis_in_the_lceCube_collaboration_-</u> <u>2021-05-10.pdf</u>

Analysis overview <u>https://wiki.icecube.wisc.edu/index.php/Analysis_overview</u>



How do I give an IceCube talk at a conference?

- 1. Ask your advisor
- 2. Ask your working group leads
- 3. Ask Speakers Committee

icecube-speakerscom@icecube.wisc.edu

https://wiki.icecube.wisc.edu/index.php/Speakers_Committee

Make sure your plots are approved!

See page 2: <u>https://wiki.icecube.wisc.edu/images/0/0f/Analysis_in_the_IceCube_collaboration_-</u> <u>2021-05-10.pdf</u>



Collaboration meetings

• Twice a year

- Generally Spring meeting in Europe and fall meeting in U.S.
- Generally every other U.S. meeting in Madison
- Very busy! ~5 days IceCube, often preceded by pre-meetings and followed by postmeetings
- Often lots of social events (organized and not) see #banana-party
- Intense! Pace yourself.
- Workload is often very high before the meetings. The computer cluster will be very busy.
- **Suggestion:** Plan on taking it easy immediately after a collaboration meeting. If you traveled somewhere cool, consider taking a few days off there (if you can).



Will I go to Pole?

- You can't know for sure!
- Most people think it's awesome, but some hated it
- Before the pandemic, sent several (or more) people every year
- Criteria is important for selection:
 - Service work!!!
 - Fit to specific activities planned for the season
 - Number of years in IceCube
- More people go when construction is occurring
- Actively seeking drillers for IceCube Upgrade
- If you are interested, talk with your supervisor and to Farshid Feyzi if you want to drill

