

1ST HEP C++ COURSE AND HANDS-ON TRAINING

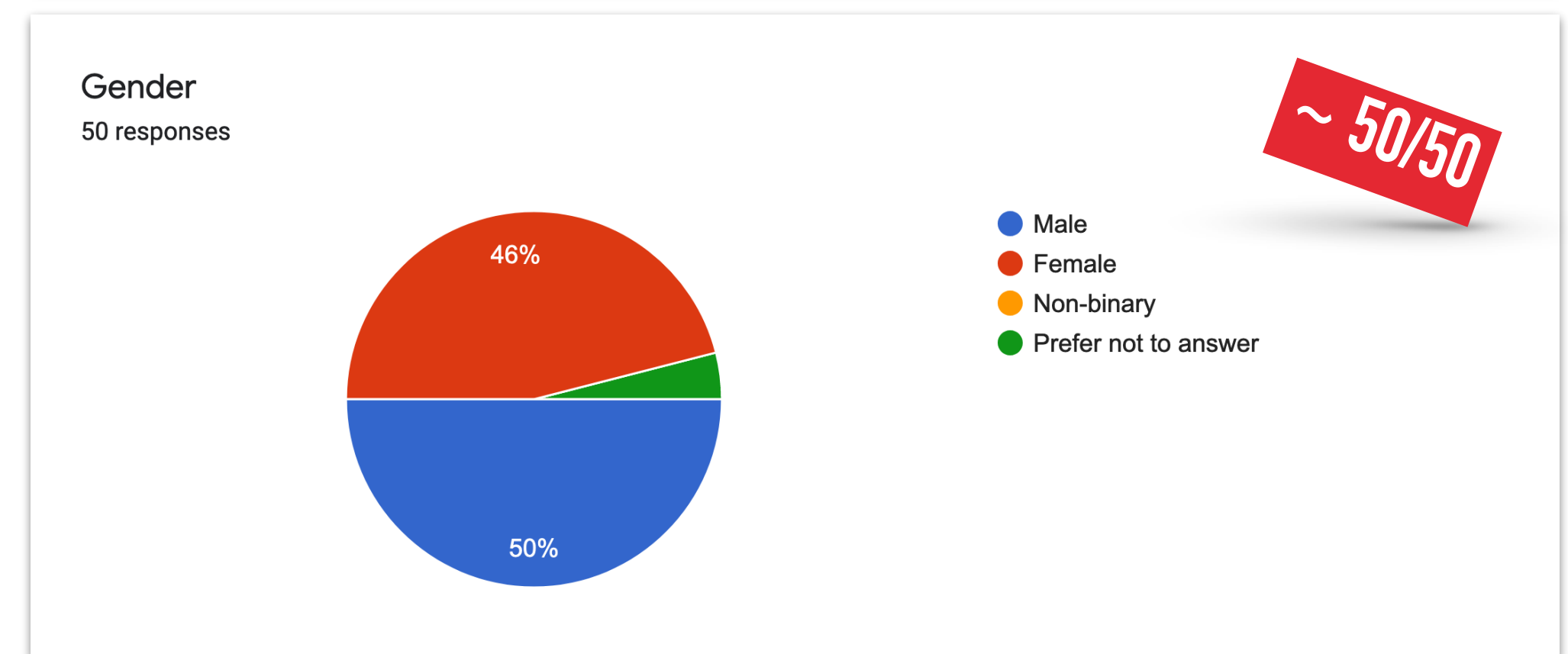
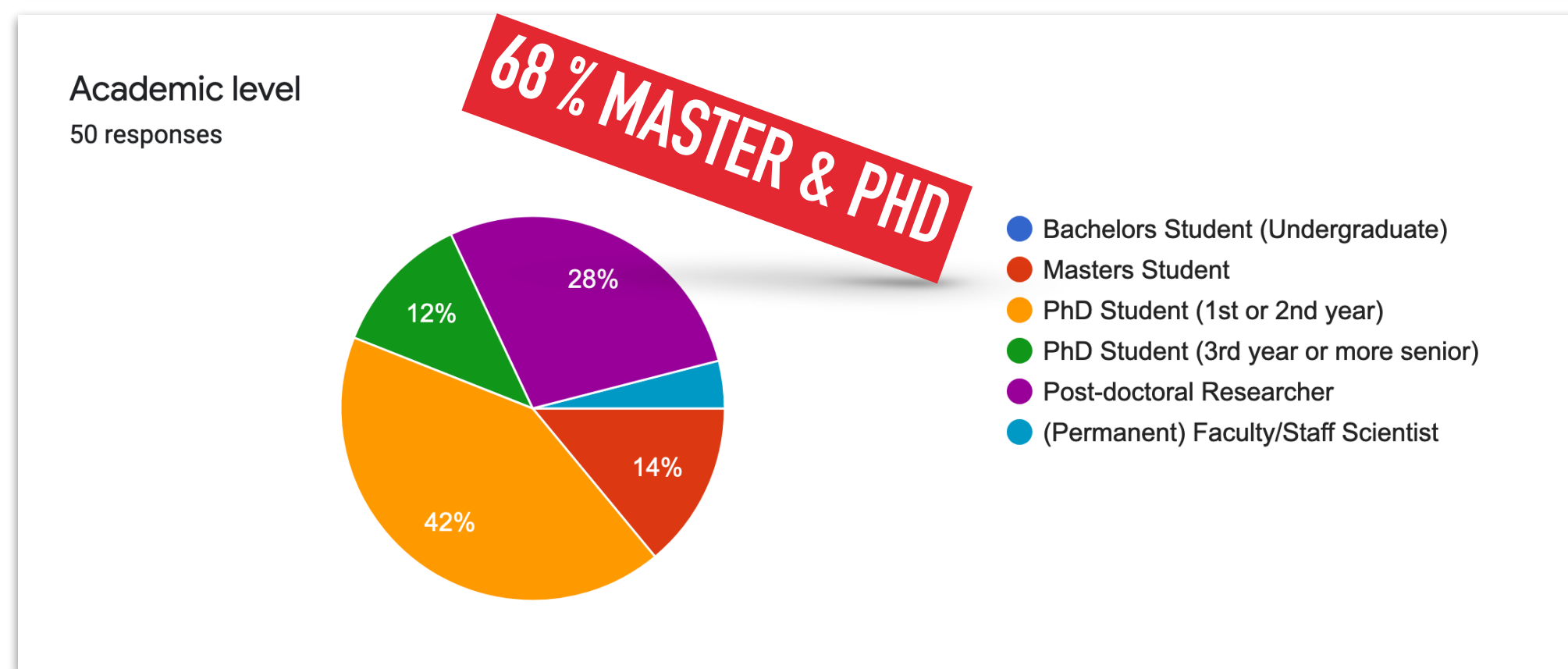
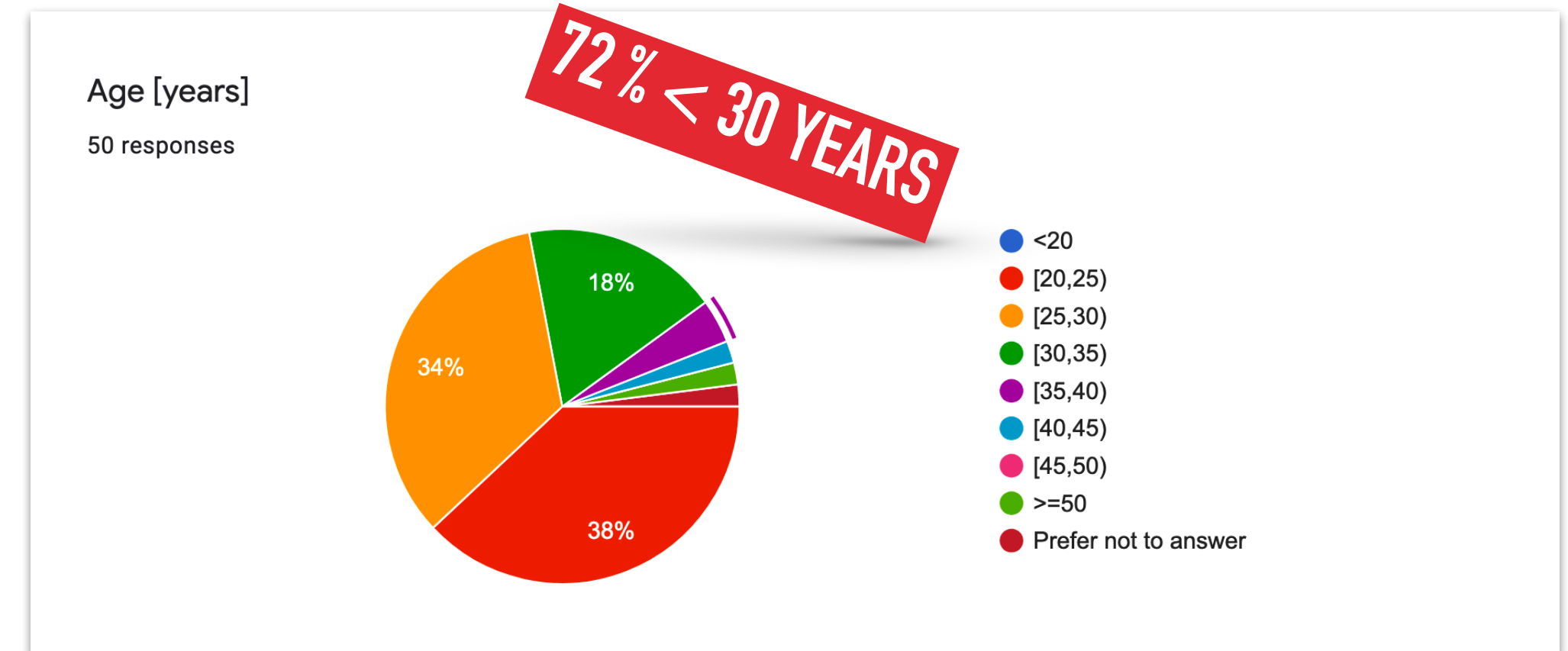
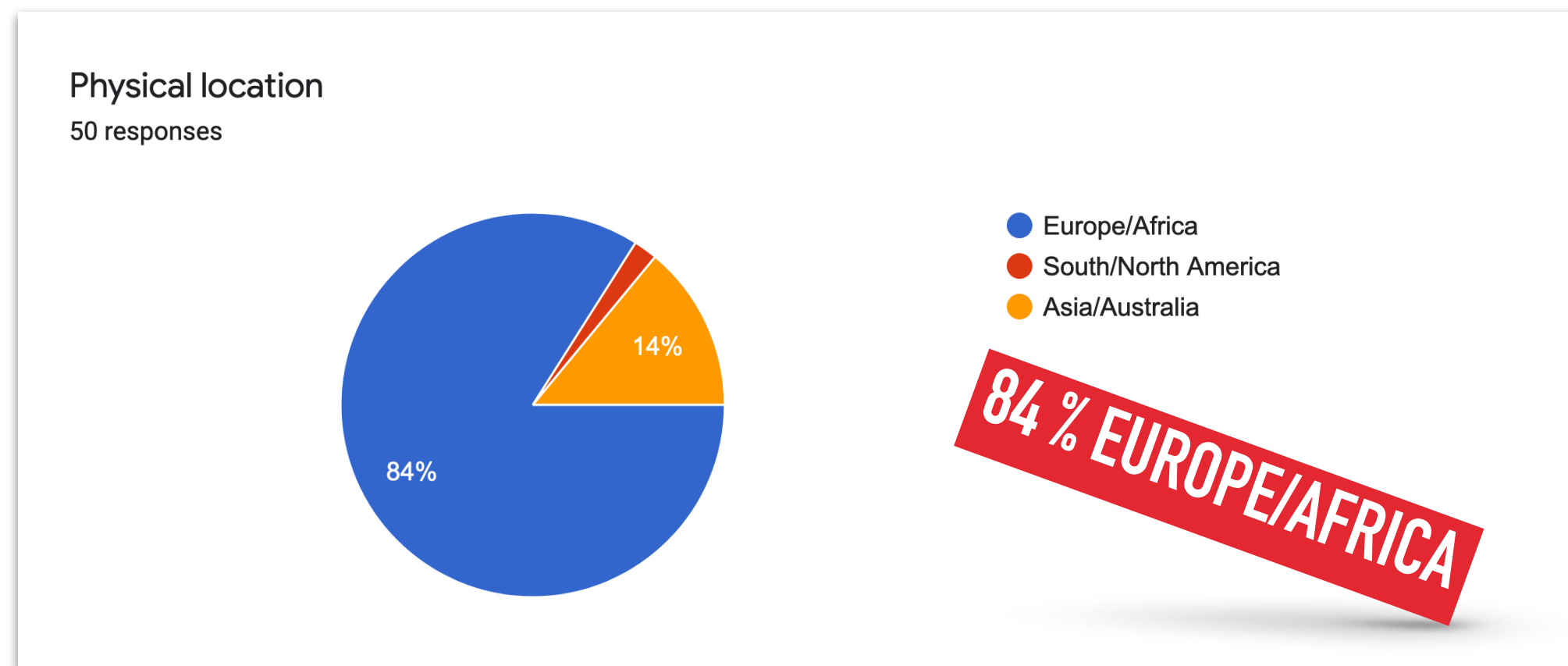
POST-MORTEM

STEFAN ROISER

30 OCTOBER 2020

STUDENTS PROFILES

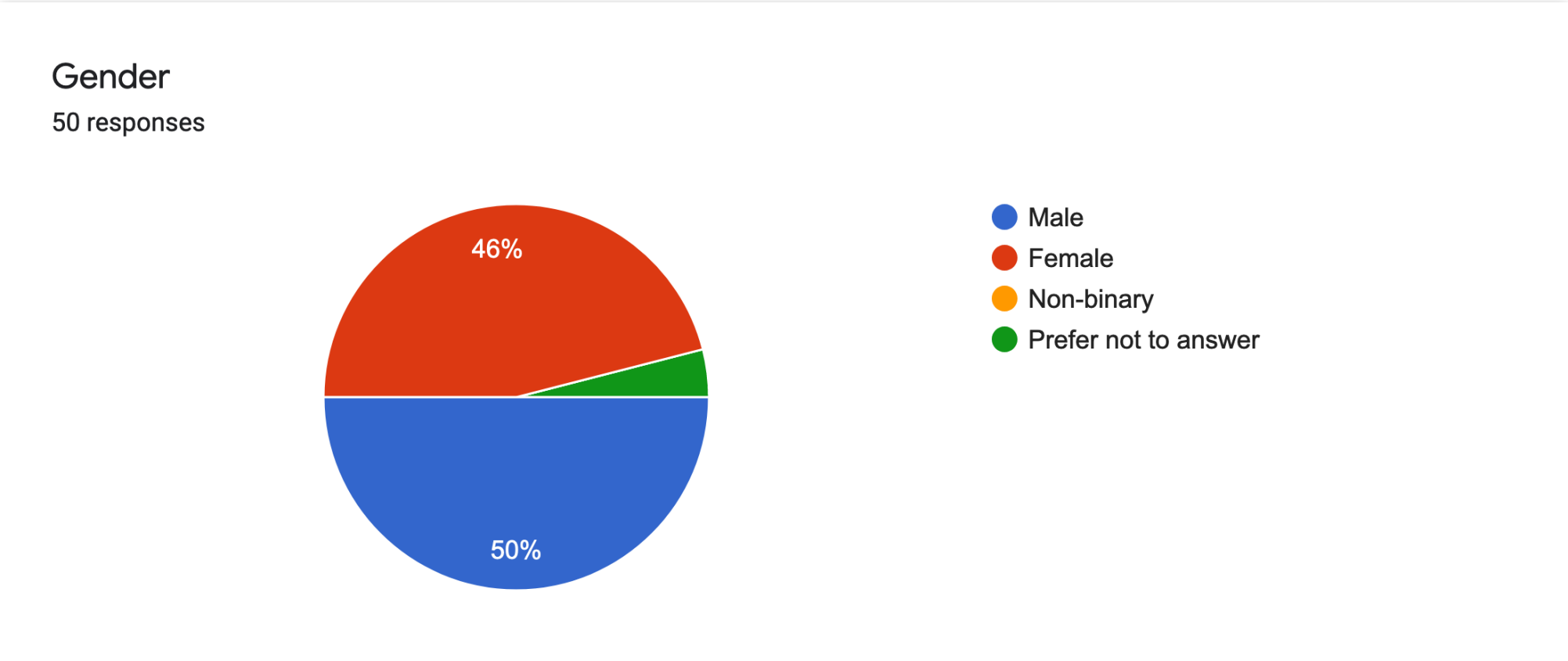
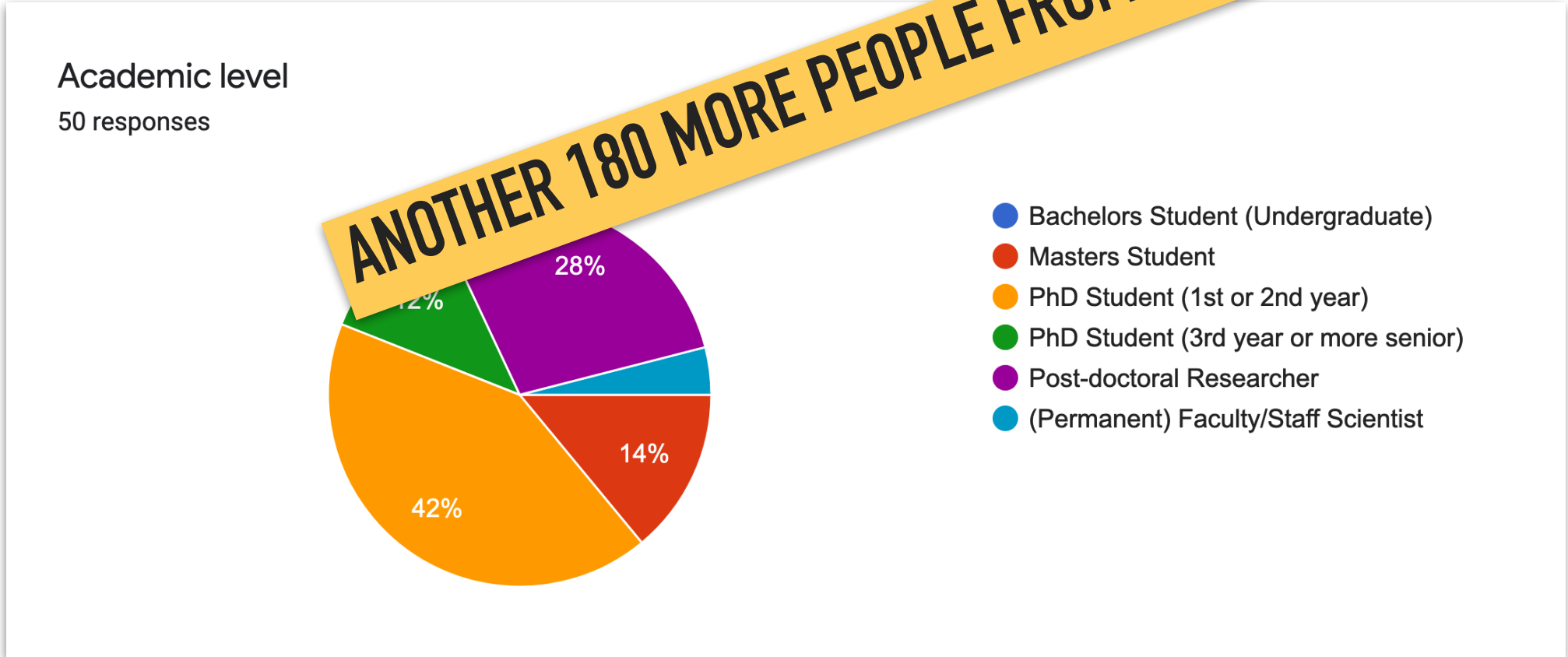
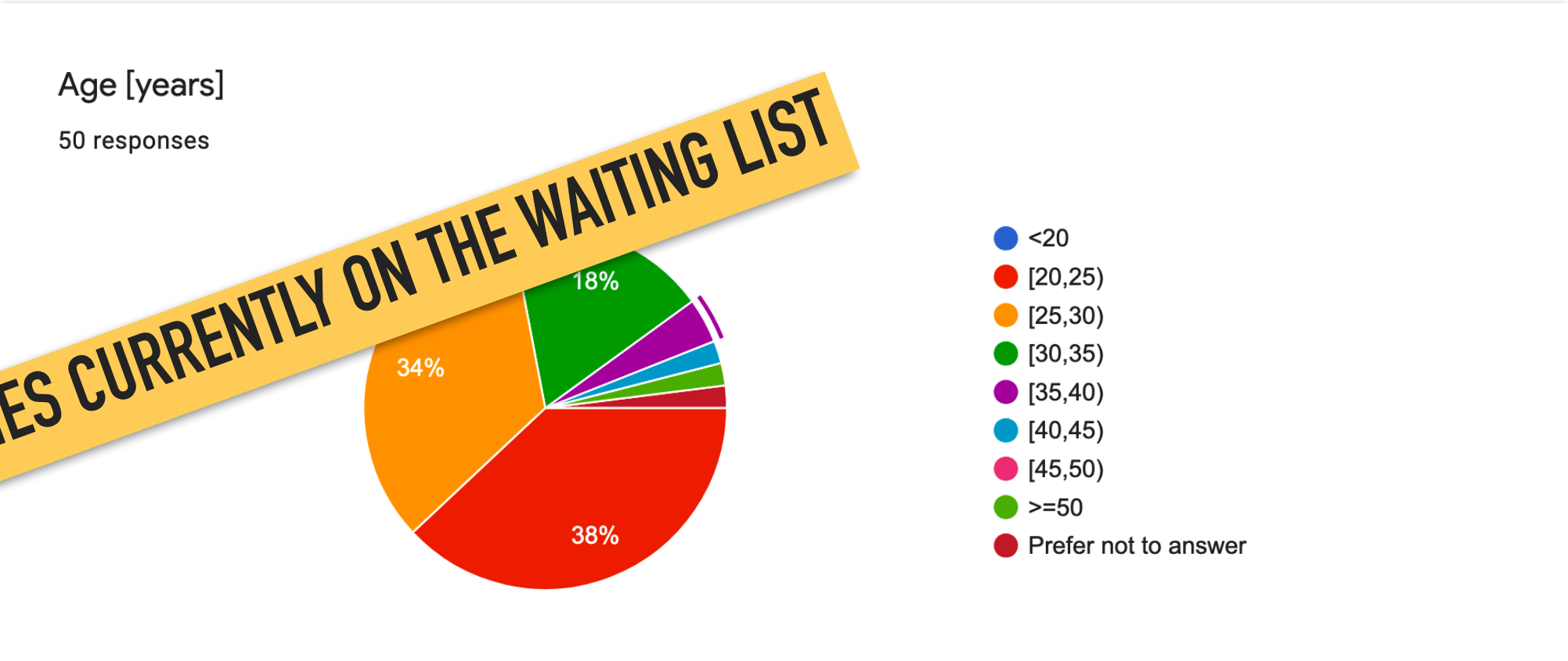
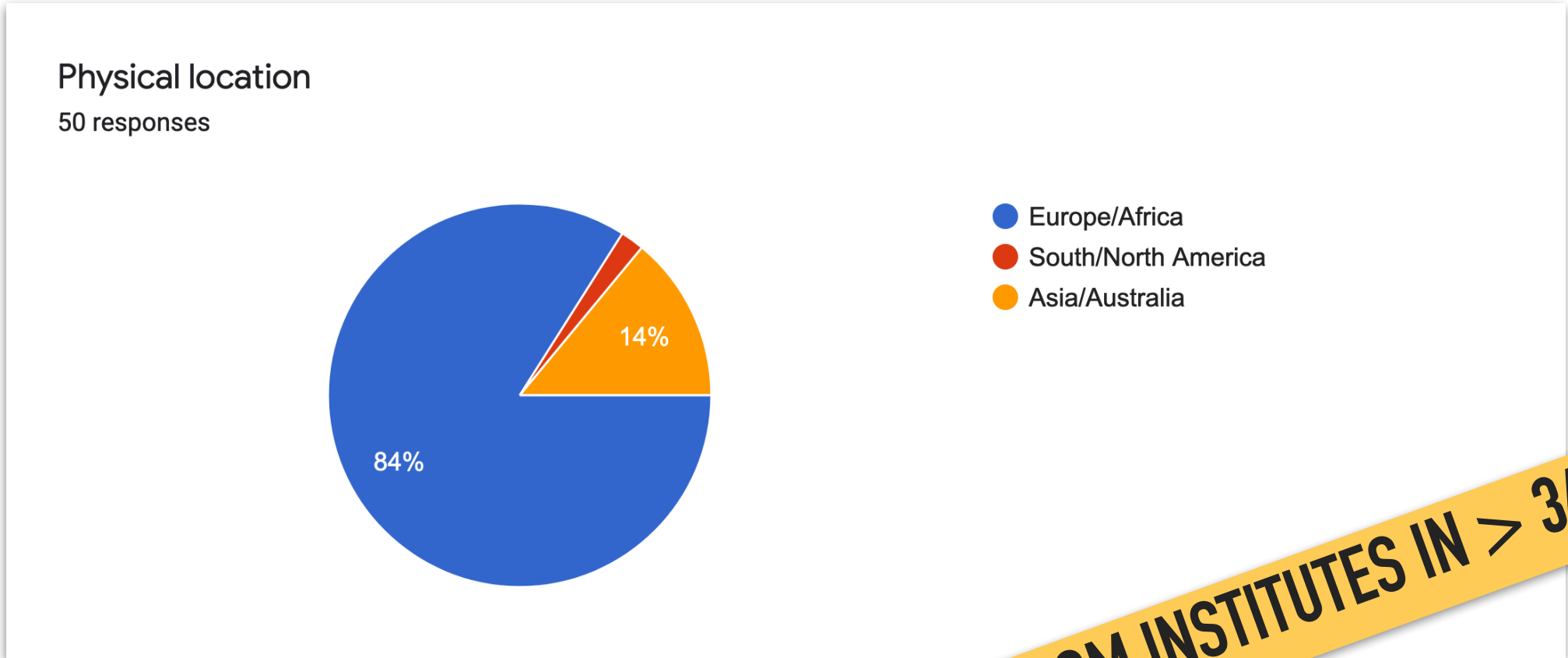
50 young European, university enrolled students of equal gender



In addition this time (and waiting list) are ATLAS centric, e.g. b/c of clash with CMS S&C week

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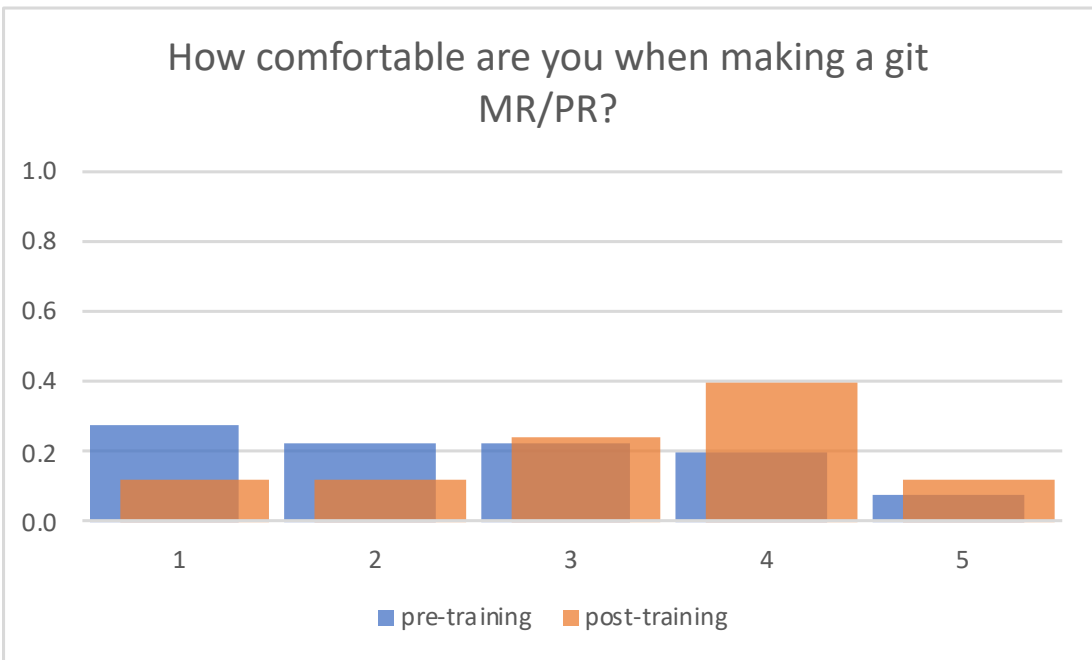
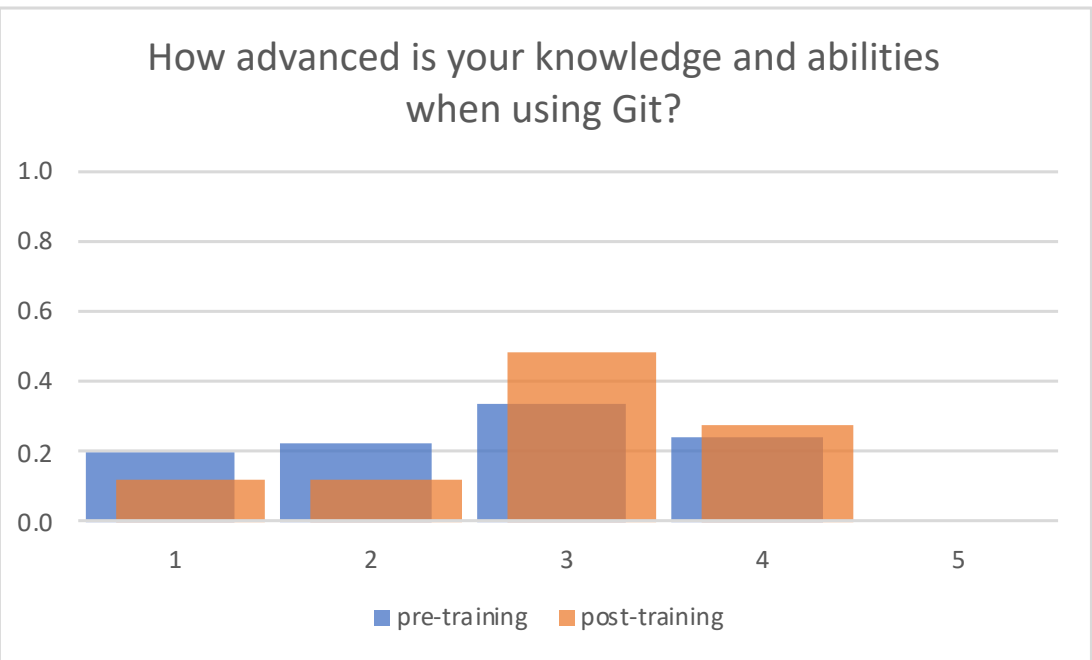
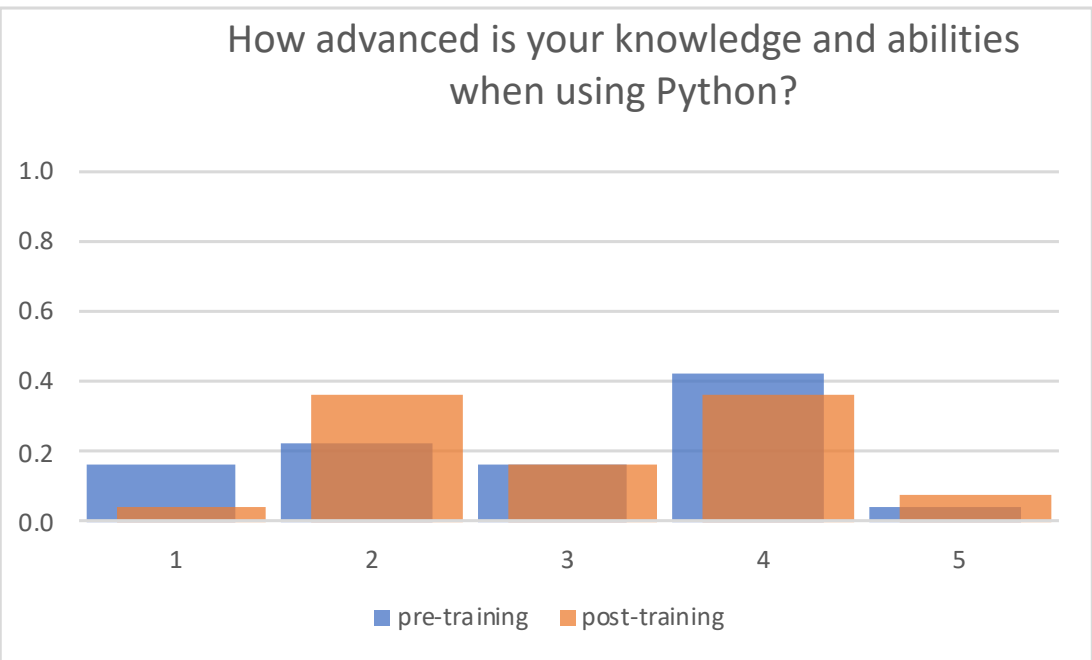
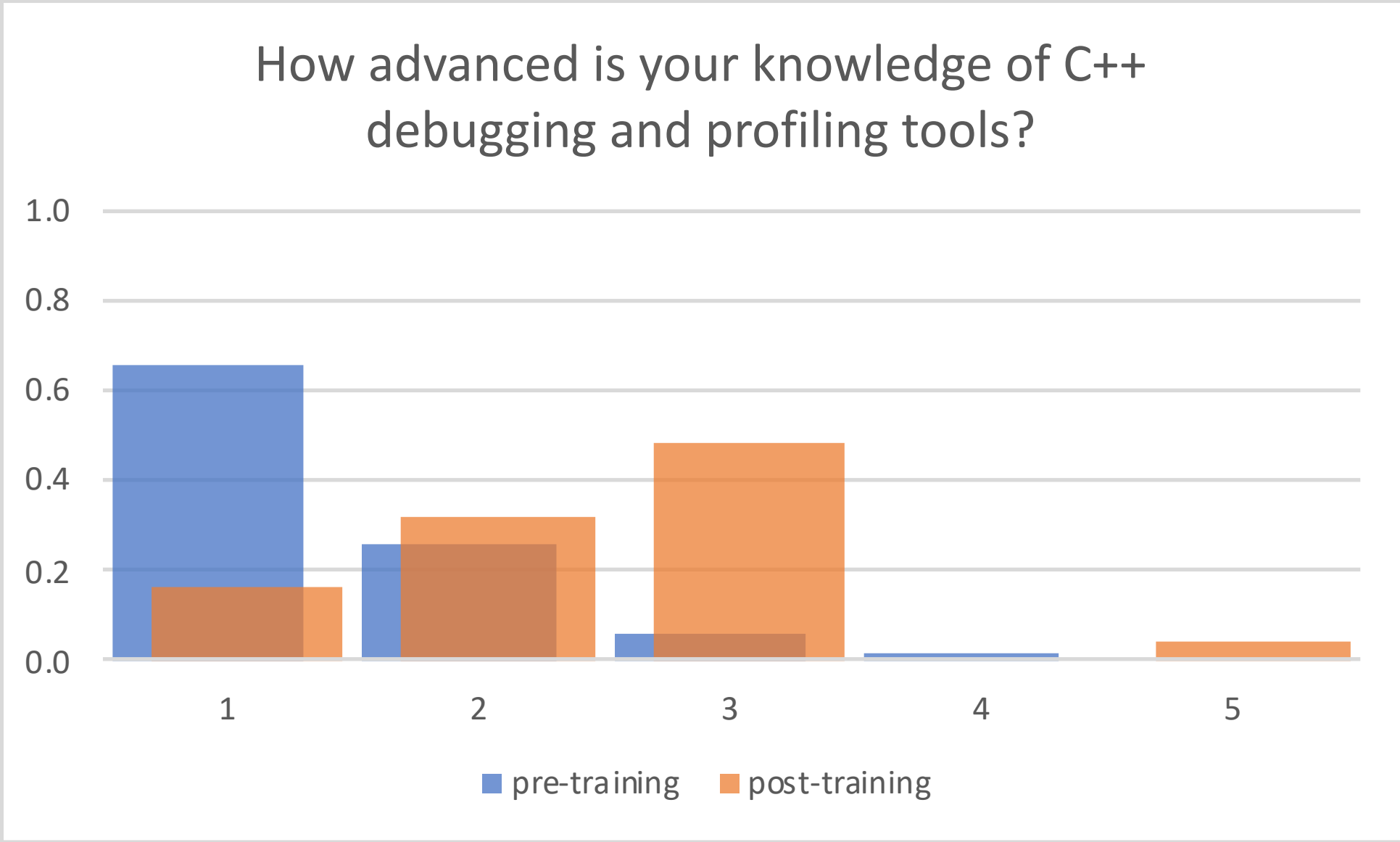
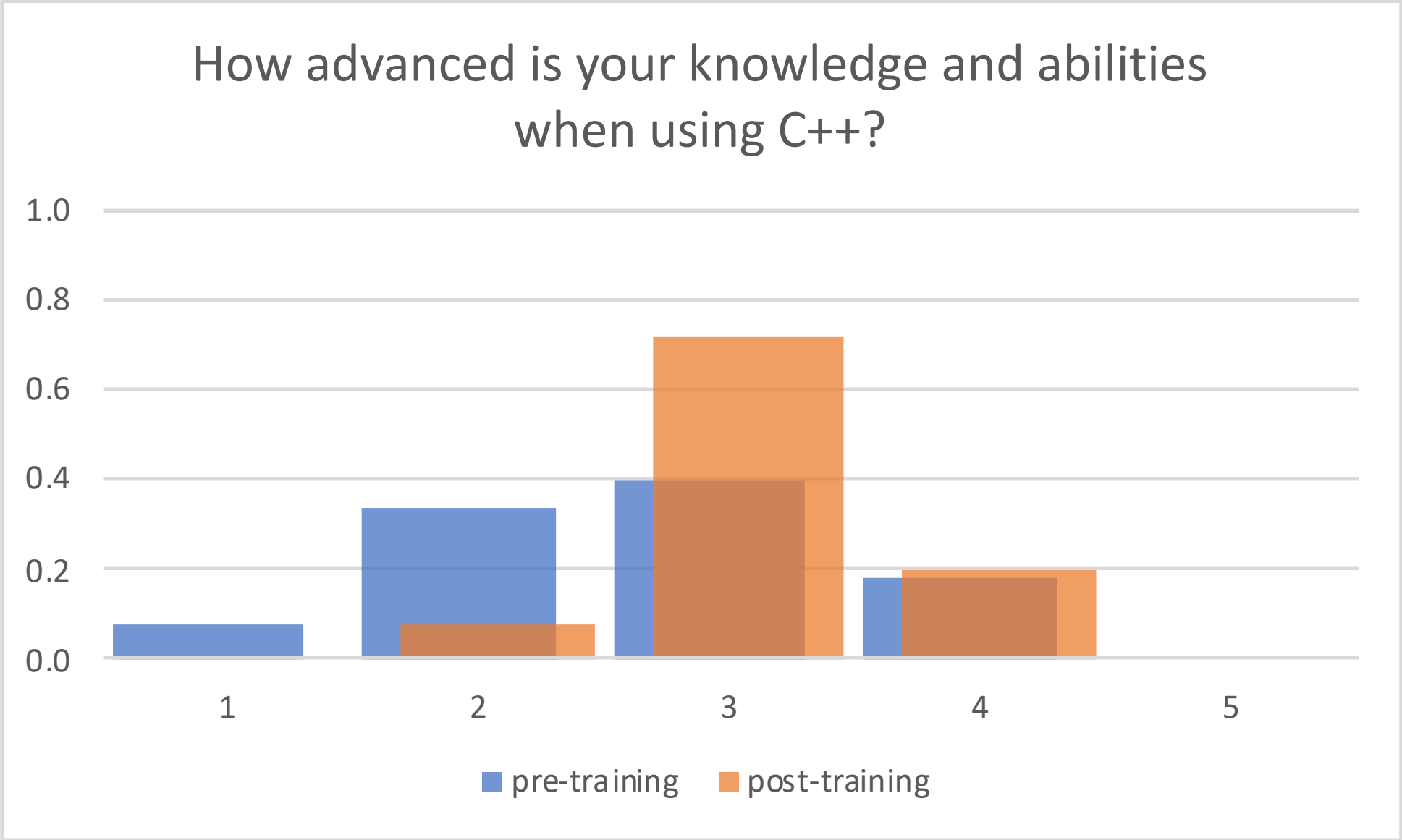


ANOTHER 180 MORE PEOPLE FROM INSTITUTES IN > 34 COUNTRIES CURRENTLY ON THE WAITING LIST

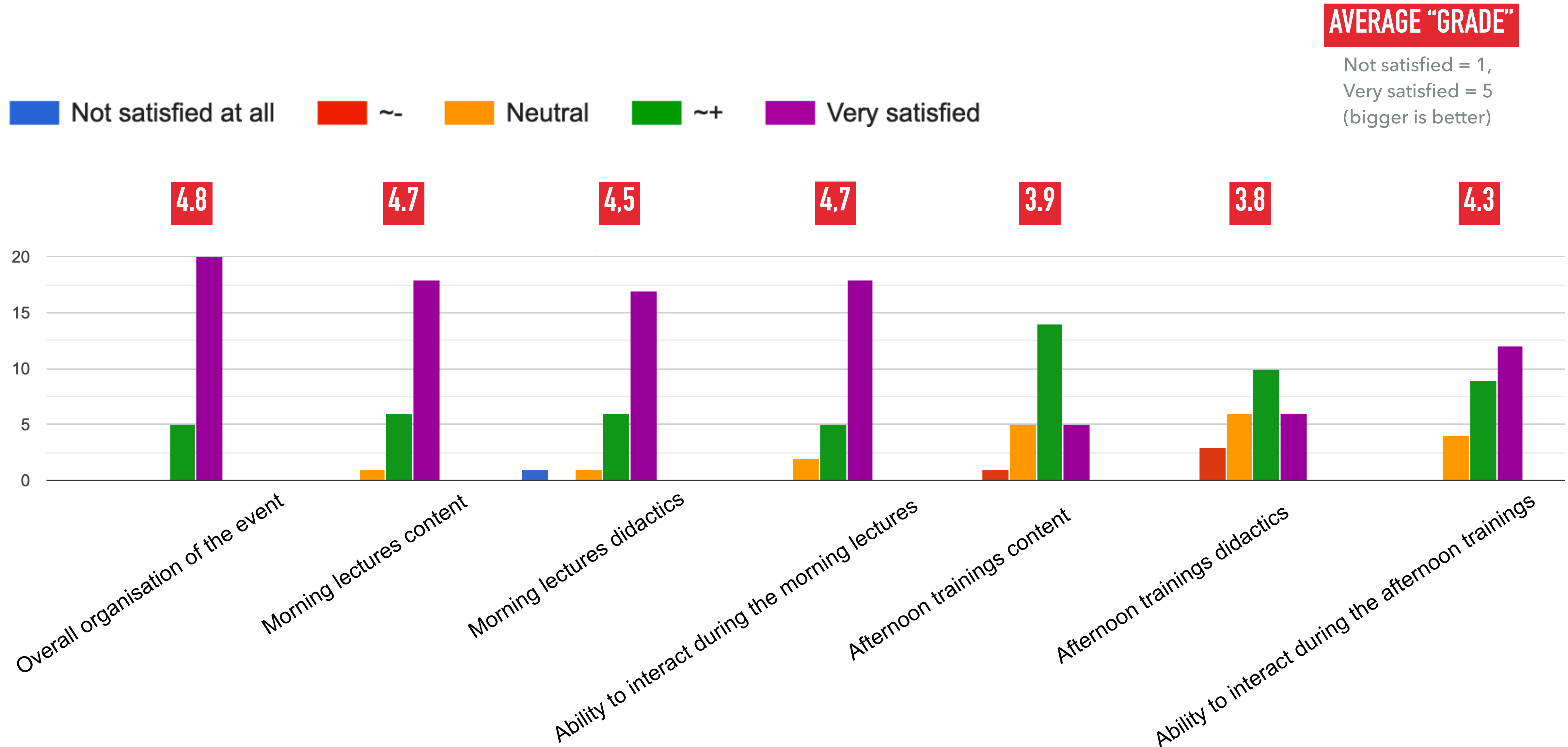
In addition this time (and waiting list) are ATLAS centric, e.g. b/c of clash with CMS S&C week

STUDENTS PERCEPTIONS OF THEIR CAPABILITIES, PRE AND POST TRAINING

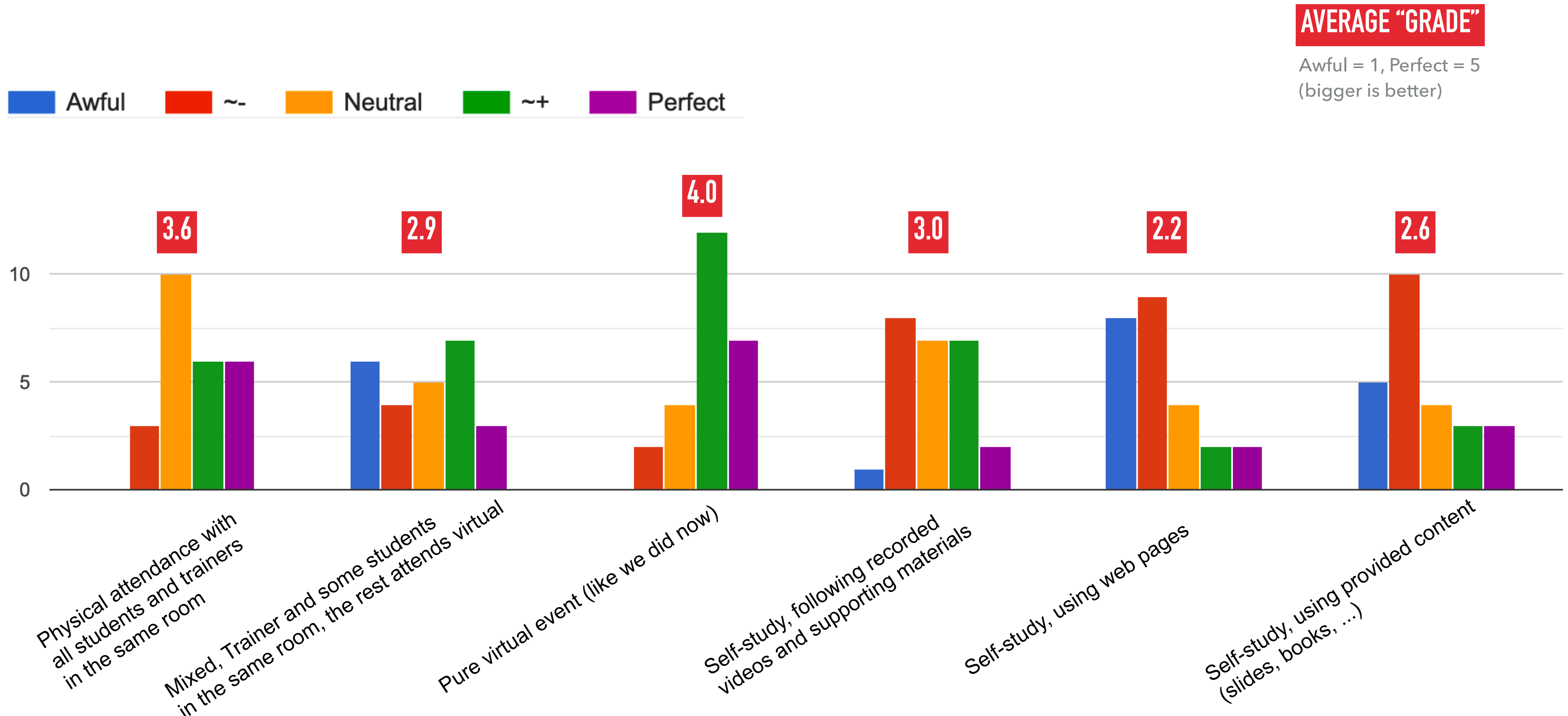
► The same question asked in pre- and post-training surveys



WHAT WAS YOUR OVERALL SATISFACTION WITH THE EVENT?

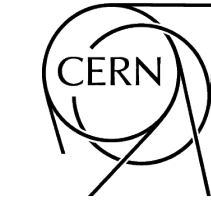


PLS LET US KNOW WHICH TRAINING FORMAT FOR SUCH EVENTS WOULD FIT YOU BEST



ATTENDANCE CERTIFICATE

- ▶ 25 students (out of 50) asked for a certificate
- ▶ 1 student replied she uses it with her institute
- ▶ Also opportunity to promote HSF & SIDIS



CERTIFICATE OF PARTICIPATION

Amy Farrah Fowler

has attended the first **HEP C++ Course and Hands-on Training** from **12 - 16 October 2020**

The course was organised into 12.5 hours of lectures and 8 hours of training sessions.

The lessons were taught by Dr. Sebastien Ponce (CERN) and the training sessions supported by mentors from within the high energy physics community.

The course content ranged from basic to advanced concepts of C++ software engineering and included up to the C++ '17 ISO standard.

The event was co-organised by the training working group of the **HEP Software Foundation*** and the **Software Institute for Data Intensive Sciences****

More information about the event can be found at <https://indico.cern.ch/e/cppfall20>

Dr. Graeme A Stewart

CERN / HSF

Dr. Sebastien Ponce

CERN / Course Lecturer

Dr. Stefan Roiser

CERN / SIDIS

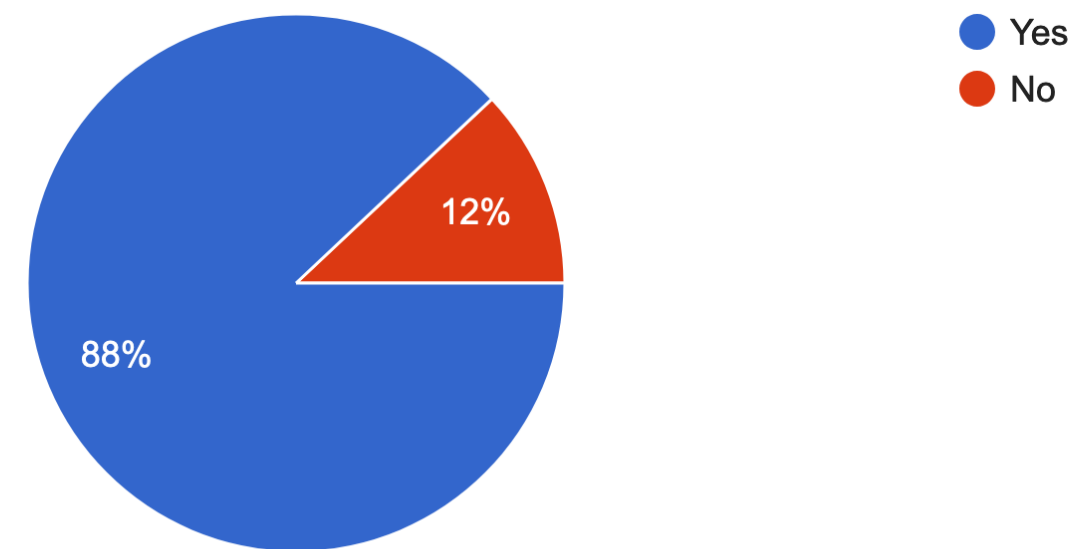
* <https://hepsoftwarefoundation.org>

** <https://sidis.web.cern.ch>

MISCELLANEOUS

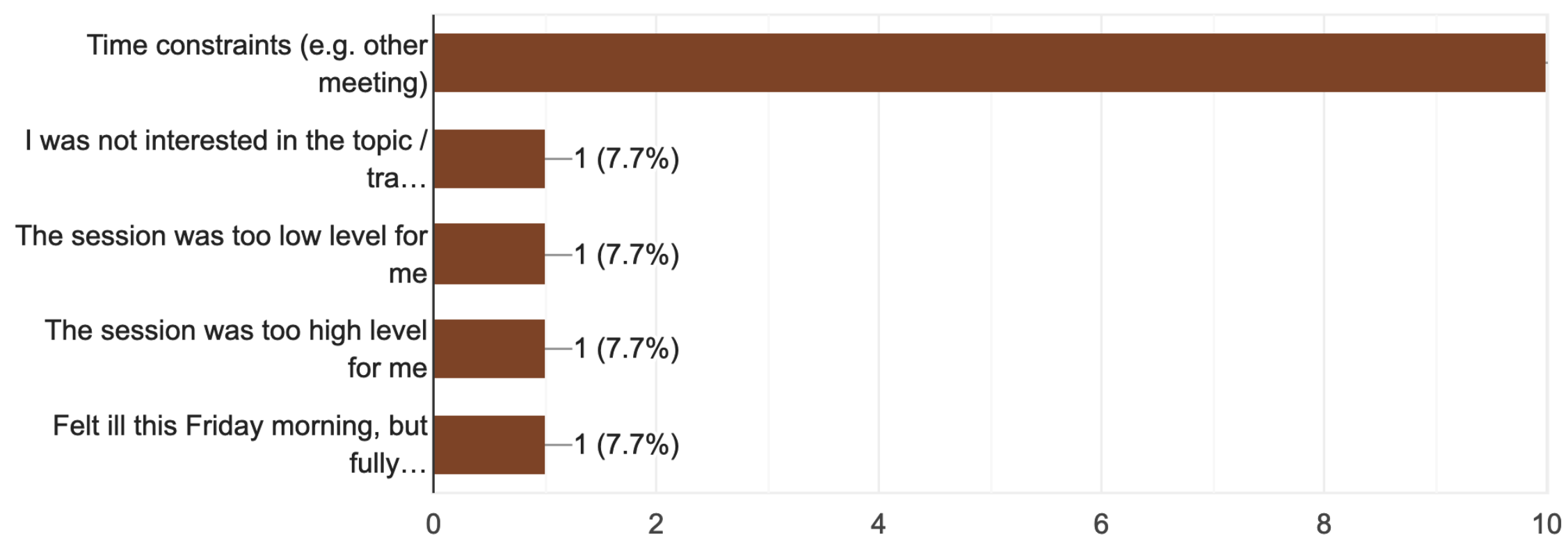
The afternoon hands-on sessions gave me the opportunity to ask questions that I otherwise would not have asked.

25 responses



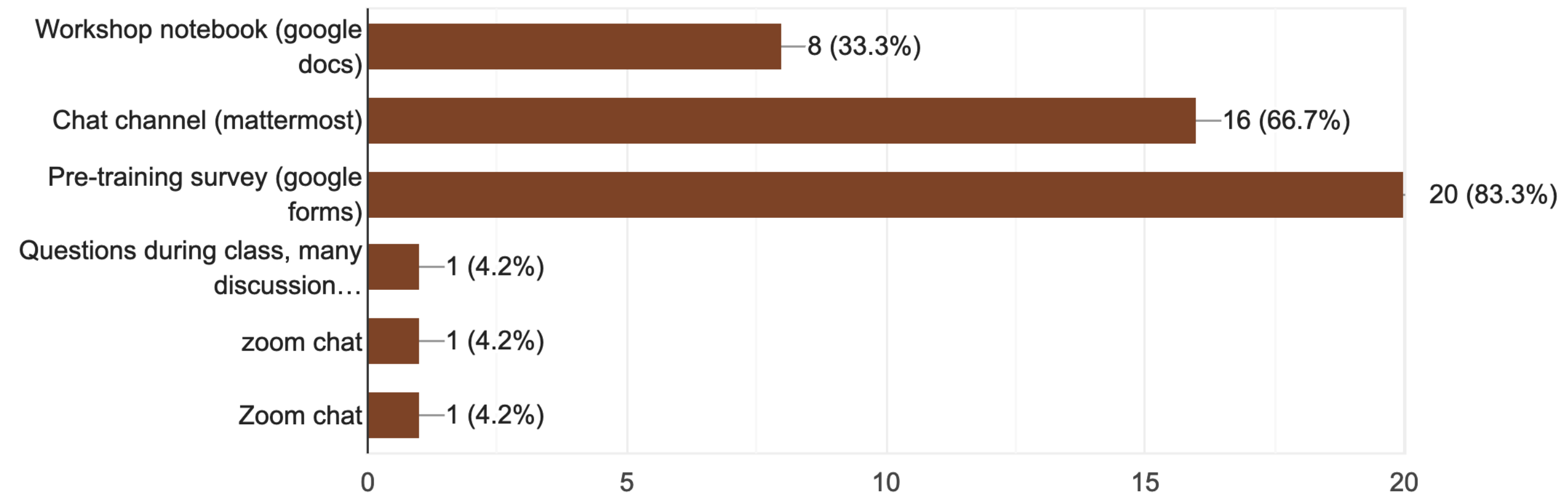
In case you did not attend (a) session/s, please let us know why

13 responses



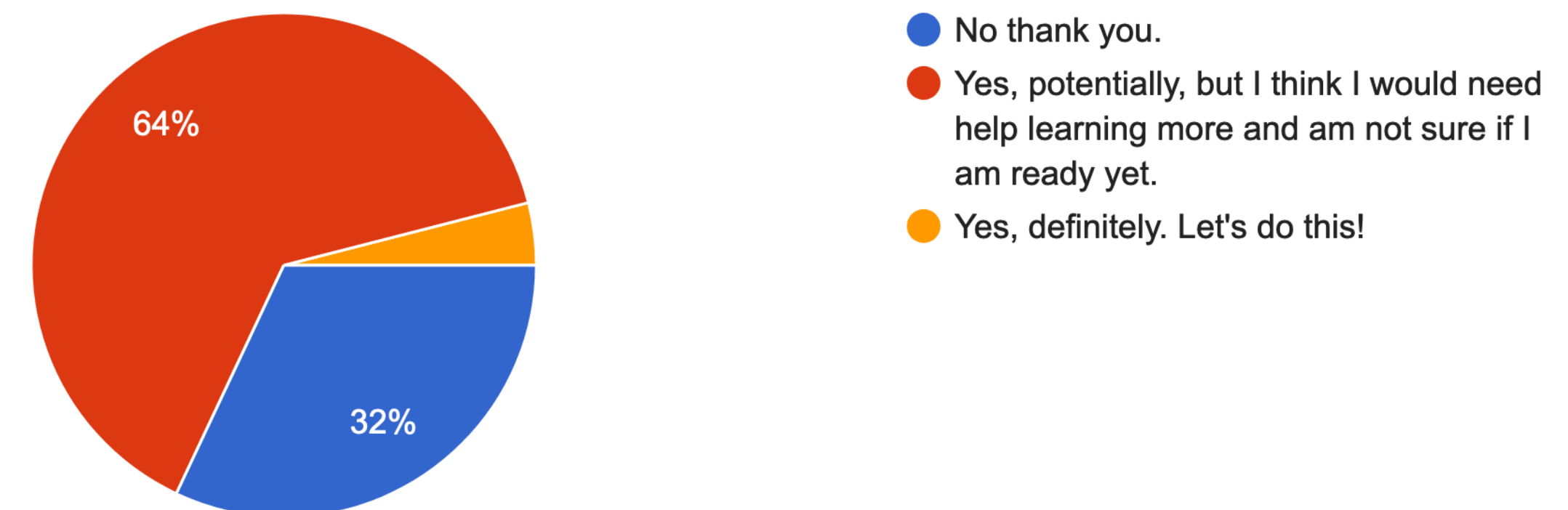
I used the following communication tools during the event

24 responses



Would you be interested in us reaching out to you to help teach/mentor at an event like this in the future and become part of the HSF Training Community?

25 responses



SOME MORE INFO FROM COMMENTS RECEIVED IN THE POST-TRAINING SURVEY

- ▶ Zoom chat (vs mattermost) appreciated and enough for asking/answering questions
- ▶ Additional/more lectures on: multi-threading, doxygen, cmake, good practices, stack vs heap, more on tools/libraries
- ▶ Although most also acknowledged that this would not fit into a 1 week course
- ▶ Afternoon sessions were felt to need more structure and interaction
- ▶ NB: No criticism to mentors! This is how the sessions were planned and announced
- ▶ "I loved Sam's approach of going through everything the whole time"

QUESTIONS (TO MYSELF) ... IF WE CONTINUE ...

- ▶ When to schedule the next event?
- ▶ Which format is the best?
- ▶ Accept more students?
- ▶ Changes in the afternoons?
- ▶ Changes to attendance certificate?
- ▶ ...

THANK YOU, IT WAS A GREAT COURSE! :) AND ESPECIALLY THANK YOU FOR OPENING IT FOR PEOPLE FROM EXPERIMENTS OUTSIDE OF CERN!

I FOUND THE ORGANISATION OF THE WORKSHOP EXCELLENT. THANK YOU!

I THINK IT WAS VERY WELL ORGANIZED AND PRETTY COMPLETE. CONGRATS TO THE ORGANIZERS!

I THINK THE COURSE WAS VERY COMPREHENSIVE IN ITS COVERAGE OF C++ AND THE LECTURER AND HELPERS CLEARLY KNEW WHAT THEY WERE TALKING ABOUT.

I FEEL LIKE I HAVE LOADED ALL 299 SLIDES TO MY INTERNAL HEAP WITHOUT HAVING TOOLS TO COMMIT IT TO SYSTEM MEMORY.

LOVED IT, I'M ALREADY USING GDB W. ATHENA.

THANK YOU FOR ORGANIZING THIS TRAINING, IT GAVE A VERY GOOD OVERVIEW OF THE C++ FUNCTIONALITIES WE NEED AND I WISH I COULD HAVE ATTENDED SUCH AN EVENT EARLIER IN MY PHD.

I THINK THAT THE WORKSHOP WAS REALLY GREAT! I LEARN NEW THINGS, ACQUIRE NEW SKILLS...SO REALLY THANK YOU.

I REALLY ENJOYED THE COURSE. THANKS FOR ORGANISING IT!

THANKS VERY MUCH FOR HOSTING THIS VIRTUALLY SO AS MANY PEOPLE AS POSSIBLE CAN ATTEND

... plus many more thank you messages received by email

1ST HEP C++ COURSE AND HANDS-ON TRAINING TEAM

Lecturer	Sebastien Ponce
Organizers (hep-cpp-course-organizers@cern.ch)	Kilian Lieret, Benedikt Hegner, Sudhir Malik, Sam Meehan, Cath Noble, Sebastien Ponce, Stefan Roiser, Graeme Stewart
Mentors (hep-cpp-course-mentors@cern.ch)	Martin Ritter, Riccardo Maria Bianchi, David Chamont, Ben Couturier, Attila Krsznahorkay, Walter Lampl, Robert Langenberg, Stewart Martin-Haugh, Sam Meehan, Ed Moyse, Sebastien Ponce, David Smith, Graeme Stewart, Andrea Valassi

LINKS

- ▶ Pre-training Survey

<https://docs.google.com/forms/d/1RSNIJ0ICbUUiBTtuJa8L5tM0kh3Zo8AQj3PLJoWcNos/edit#responses>

- ▶ Post-training Survey

<https://docs.google.com/forms/d/1I-bsgZVsc4JGWtK-Auc7-UwXGB33mPzJxX2UEnB5Z5E/edit#responses>