Welcome to the SPP-2041 „Computational Connectomics" Status Meeting

March 1-2, 2023

Meeting Schedule

* https://docs.google.com/document/d/
  1N3eJJuiSYd0EGXQXV1UAg5rjeOVeJDgdfF2QipkPxjk/edit

SPP 2041
Computational
Connectomics

Schedule of SPP-2041 Status Meeting, March 1-2, 2023

* **Location:** Frankfurt Institute for Advanced Studies, Ruth-Moufang-Str. 1, 60437 Frankfurt am Main (how to get there)
* **Zoom:** invitation link has been e-mailed to all SPP-2041 members. Meeting-ID: 86329009843, **Kenncode:** 972298
* All times are Central European Time (CET).
* Wifi Password: redbembel

Wednesday, March 1, morning session: (talks are: 25+5 min, speakers are underlined)

08:50 - 09:00 **Welcome**

Session Chair: Jochen Triesch

09:00 - 09:30 Philipp Berens, Kevin Briggman, Thomas Euler (remote): Towards a connectomics-based predictive model of the inner retina
09:30 - 10:00 Sacha van Albada, Timo Dickscheid, Alexandros Goulas: Cellular, connectional

Meeting Logistics (1/2)

- Talks, coffee breaks, lunch, poster session **all in this building**

- Coffee breaks and lunch in „Faculty Club" (top floor)

- Poster session split between „Faculty Club" (top floor, posters 7-12) and seminar room 101 (ground floor, posters 1-6)

- WLAN access: networks: FIAS1, FIAS2, … , password: redbembel

- Zoom: invitation link was e-mailed: Meeting-ID: 86329009843, Kenncode: 972298

Meeting Logistics (2/2)

- Dinner tonight in restaurant „Zum Lahmen Esel": https://www.lahmer-esel.de/ (10 min walk from here, subway stop "Niederursel" along the lines U3, U8, U9)

- order à la carte

- some vegetarian options

- DFG requires us to be moderate: please restrict yourself to ordering starter, main dish, dessert, one (alcoholic) beverage, coffee

- Please order additional alcoholic drinks separately and pay out of your own pocket

- travel/hotel reimbursement: please keep your receipts!

Enjoy the Meeting!

General Discussion Agenda:

- travel reimbursement
- coordination funds
- summer schools / training camps
- next status meeting
- other

Travel Reimbursement

- download and fill-in „Receipted Expenses Form" from https://spp2041.de

- send with original receipts to Susanne Steiner, Frankfurt Institute for Advanced Studies, Ruth-Moufang-Str. 1, 60438 Frankfurt am Main
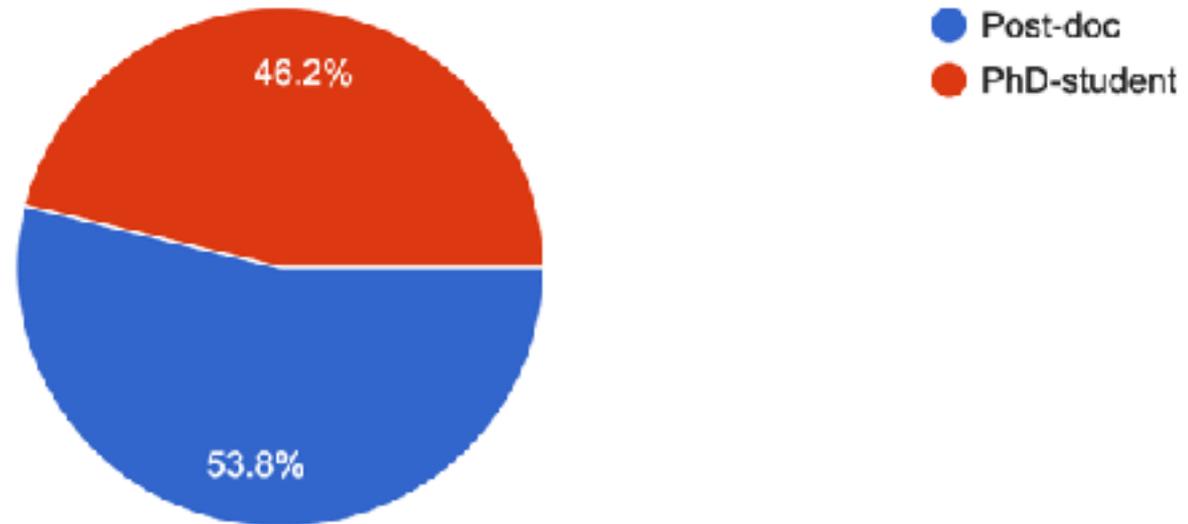
Coordination Funds

- **429,680 € in total**; (includes 271,062 € leftover funds from the first period)
  - personnel:
    - secretarial support (41,310 €)
    - web page creation/maintenance (8,160 €)
  - organization of project meetings (115,590 €)
  - summer schools and workshops (110,900 €)
  - training opportunities for junior scientists (51,600 €)
  - gender equality measures (18,000 €)
  - invited speakers (28,800 €)
  - steering committee travel (15,000 €)
  - public relations (12,000 €)

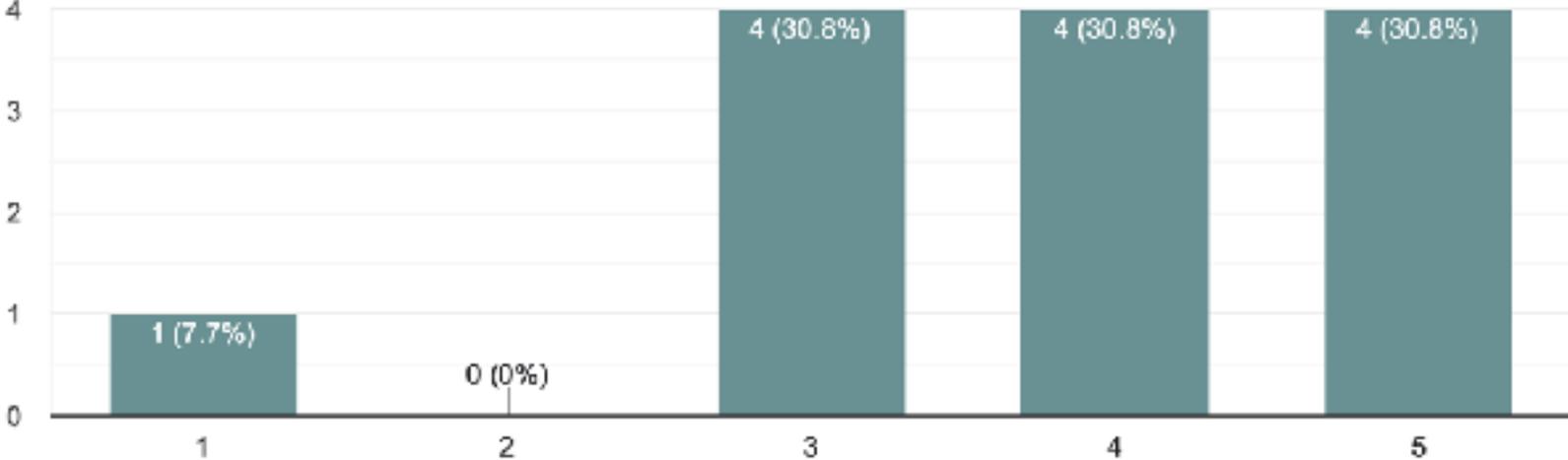# Summer Schools/Training Camps: Results from our poll

I am a:
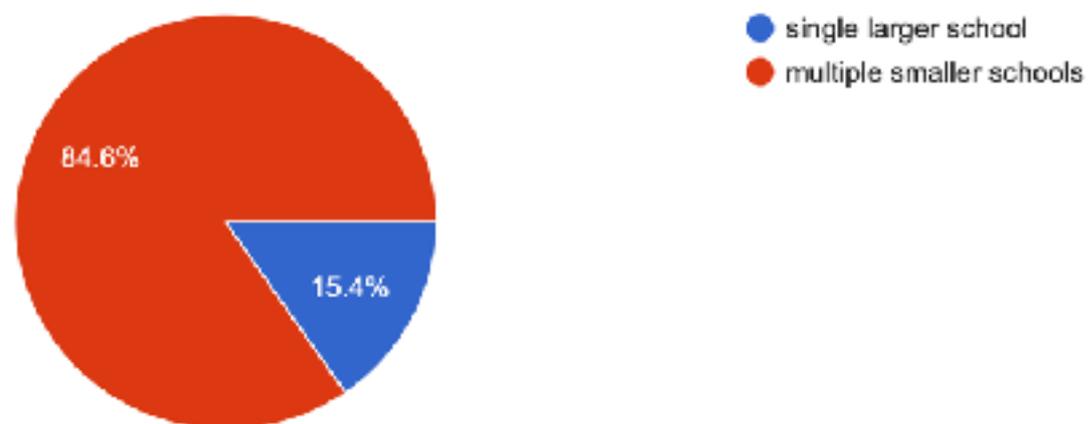
13 responses

- Post-doc
- PhD-student

46.2%

53.8%

How much could your research benefit from additional training within the priority program (1=not much; 5=very much)?
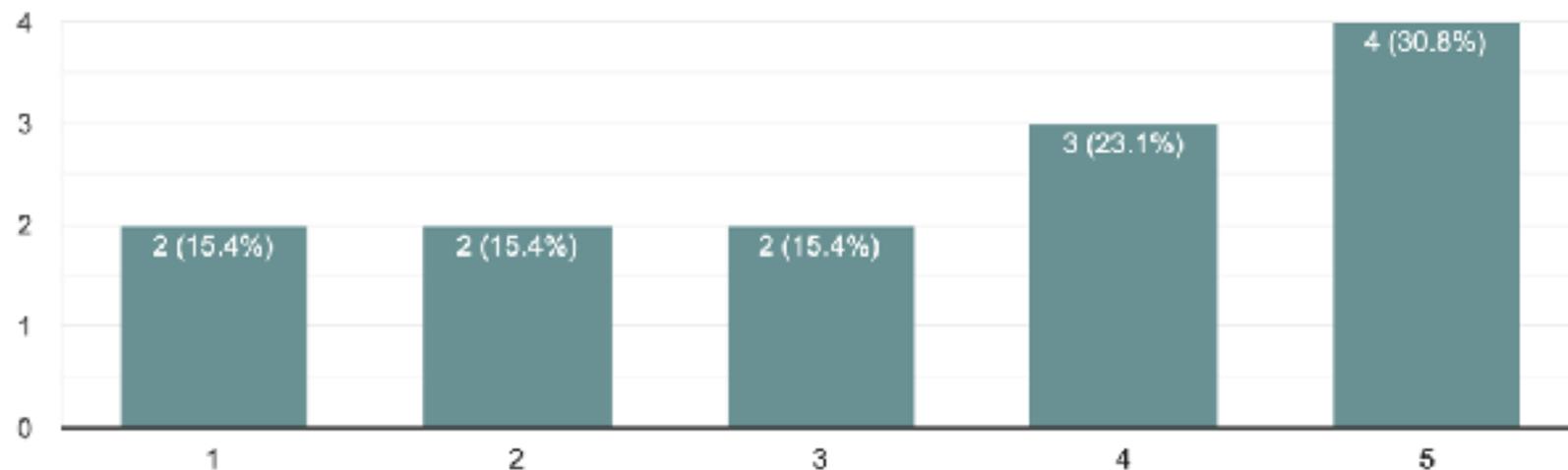
13 responses

In case our SPP organizes additional training, would you prefer a single larger school (e.g., two weeks) with diverse topics or several smaller and more focused schools (e.g., 3 days).

13 responses

single larger school
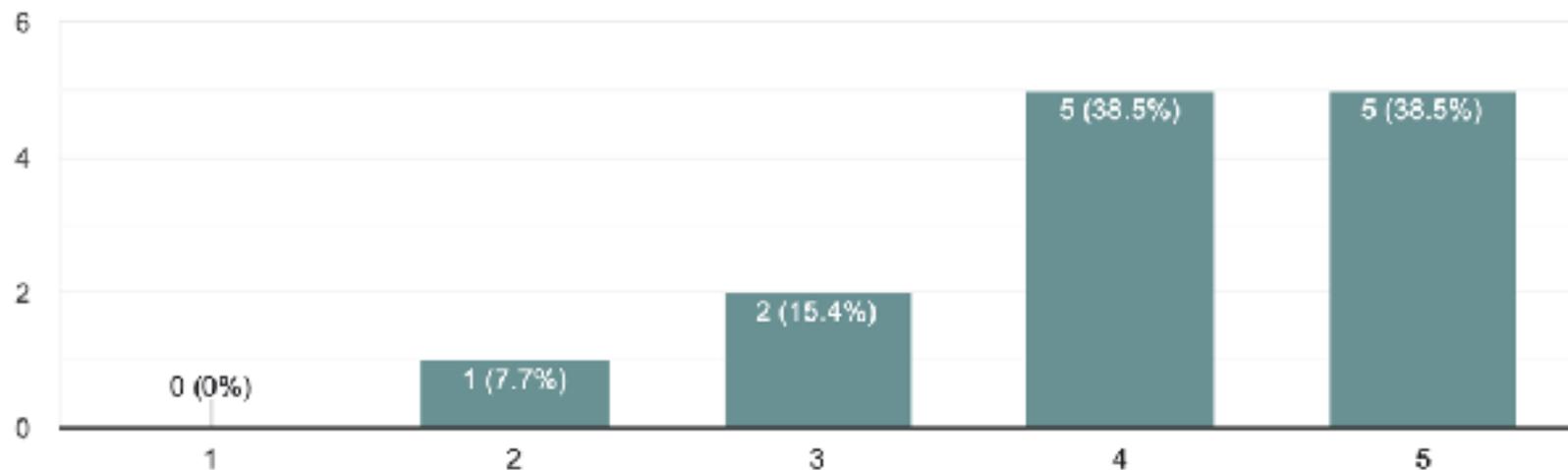multiple smaller schools

84.6%

15.4%

How interested are you in offerings that deepen your knowledge of biological research findings (1=not much; 5=very much)?
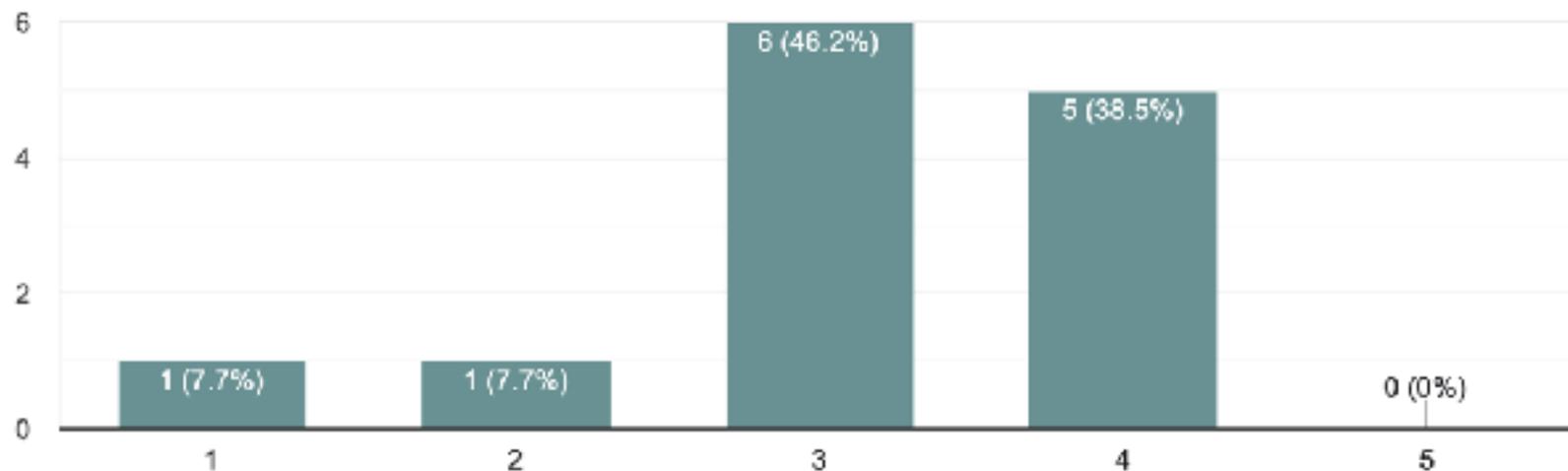
13 responses

How interested are you in offerings that teach you about specific research methods (1=not much; 5=very much)?

13 responses

To what extent would you be interested in more general career advice and transferable skills (1=not much; 5=very much)?

13 responses

Describe any particular topics / areas where you would like to receive additional training. Your description should be sufficiently precise to allow identification of suitable experts who could provide this training. If you mention multiple topics, please order them from most urgently desired to least urgently desired.

8 responses

Applied machine learning

I would love to gain first hand knowledge about methods to measure and quantify brain connectivity, especially including the state of the art software to do so and seeing the experimental setups required.

1. fMRI processing with AFNI
2. Transformers (the neural network architecture)

Python programming, mri data handling
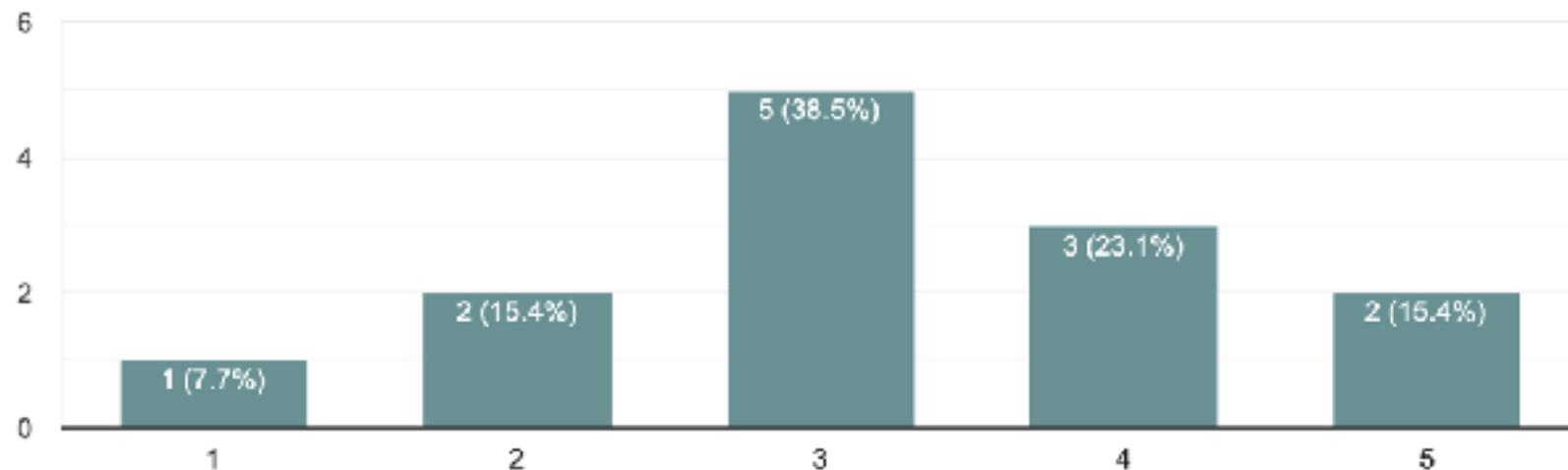
Self-organization/Dynamical Systems

Image Analysis techniques, statistic approaches (e.g. bayesian) suited to our projects

writing poster/ giving a presentation

Integrative Neuroimaging, planning big cohort studies

To what extent can your training needs be fulfilled by already existing summer/winter schools (1=not much; 5=very much)?

13 responses

How to proceed?

- no large school

- focused schools on: fMRI analysis, machine learning, transferable skills? Ask PhD students and Post-docs to take the initiative to organize what best meets their needs.

- continue to finance trips to existing schools

Next Status Meeting

- where? Open to suggestions, Frankfurt also possible
- when: 1st quarter 2024? If many teams run out of funding before, we may consider an earlier date. We'll organize a poll.