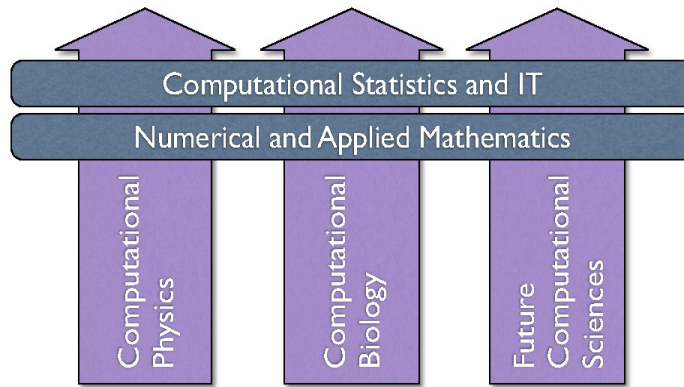




Finnish Graduate School in Computational Sciences FICS

Ella Bingham
Aalto University, School of
Science and Technology





- 5 fields:
- Computational statistics and IT
- Numerical and applied mathematics
- Computational physics
- Computational biology
- Future computational sciences

Statistics of funding

- 29 funded positions in total, not all filled
- Fields of funded students:
 - 3 Statistics & IT
 - 5 Mathematics
 - 5 Physics
 - 9 Computational Biology (from ComBi)

Statistics of all students: 74

- 13 Statistics & IT
15 Mathematics
9 Physics
37 Comp. Biology
- A lot of overlap between
 - Stat&IT and Comp Biol
 - Mathematics and Physics
 - Mathematics and Comp Biol
 - Physics and Biology, and so on
- Room for Future Computational Sciences!

Statistics of supervisors

- 9-10 universities, 19 departments
- 10 Centres of Excellence of the Academy of Finland
- Each field represented in the steering group
- Board of Advisors

Steering Group

- Samuel Kaski, Future Computational Sciences, Chairman
- Tapio Ala-Nissilä, Computational Physics
- Mats Gyllenberg, Computational Biology
- Antti Penttinen, Computational Statistics & IT
- Keijo Ruotsalainen, Numerical and Applied Mathematics
- Esko Ukkonen, Computational Biology

Board of Advisors

- Listed in the following pages, field-wise

Computational Statistics & IT

- Aapo Hyvärinen, UH
Samuel Kaski, Aalto
Jouko Lampinen, Aalto
Kaisa Miettinen, UJ
Pekka Orponen, Aalto
Antti Penttinen, UJ
Ulla Ruotsalainen, TUT

Numerical and appl. mathematics

- Timo Eirola, Aalto
- Heikki Haario, LUT
- Antti Kupiainen, UH
- Mikko Kaasalainen, TUT
- Marko Mäkelä, UTu
- Keijo Ruotsalainen, UO
- Samuli Siltanen, UH
- Rolf Stenberg, Aalto
- Jukka Tuomela, UJo

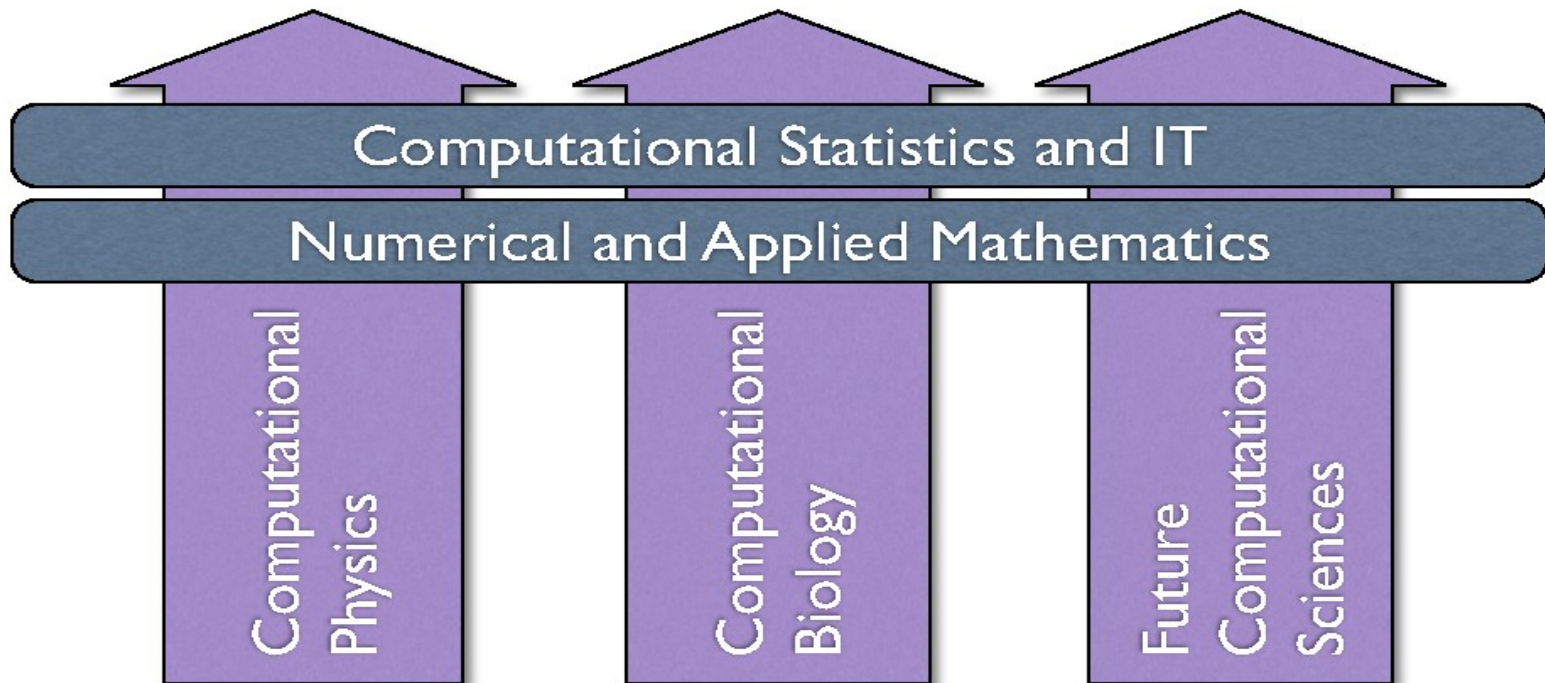
Computational Physics

- Tapio Ala-Nissilä, Aalto
Jari Kaipio, UKu
Kari Laasonen, UO
Jukka Tulkki, Aalto
Päivi Törmä, Aalto
Ilpo Vattulainen, TUT

Computational Biology

- Tero Aittokallio, UTu
- Jukka Corander, UH
- Mats Gyllenberg, UH
- Liisa Holm, UH
- Olli Kallioniemi, FIMM
- Heikki Mannila, Aalto
- Atte Moilanen, UH
- Jussi Taipale, THL+Karolinska
- Esko Ukkonen, UH
- Mauno Vihinen, UTa

Mission Possible



Making the mission a reality

- Practical steps for the student
- Tools we have

Practical steps for the students

- Sign the contract
- Do research, and do it well
- Your main contact is your supervisor
- If additional supervision needed, contact us
- Attend (some of) the topical summer schools

(cont.)

- Attend the FICS summer school
- Create networks:
also across disciplines, and internationally
- Get feedback from FICS

Tools: Mailing lists

- Fics-students @ hiit.fi
- Fics-steeringgroup @ hiit.fi
- Fics-board @ hiit.fi
- Fics-supervisors @ hiit.fi
- Fics-strategic @ hiit.fi
- A discussion forum

Tools: Topical courses

- International Workshop on Coarse-Grained Biomolecular Modeling
- Statistical Mechanics of Inference and Learning
- CSC Summer school in Scientific and High-Performance Computing
- Summer school on Computational Solution of Inverse Problems
- Helsinki Summer School on Mathematical Ecology and Evolution

Tools: Programmes

- Some funding available for organizing and attending courses, and for research visits:
Programme for course organization
Programme for course participation
Visiting programme
- A light-weight application procedure
- Details at <http://fics.hiit.fi/programmes>
- Complementary funding from supervisors

Tools: Summer school

- We're planning it now, suggestions welcome
- Location varies yearly
- High-level scientific presentations
- Informal get-togethers
- All students should attend
- Feedback given at a poster session

Tools: Feedback

- Research plan updated yearly and sent to the coordinator
- In the summer school: director, coordinator and one or more board members will comment the progress at the poster session

What's next tonight

- Discussion
- For supervisors, a discussion meeting is organized before the next call for applications
- Poster activity introduced
- Move to the T building (indoors)
- Poster session
- Cocktail-style dinner + wine