



### **The 27th Jyväskylä Summer School**

7th - 18th August 2017

University of Jyväskylä

The 27th Jyväskylä Summer School offers courses for advanced Master's students, PhD students, and post-docs in various fields of science and information technology. Students from all over the world are encouraged to apply and to benefit from the high quality interdisciplinary teaching of the Summer School. The Jyväskylä Summer School provides students with an excellent opportunity to participate in a large number of courses and enjoy high quality teaching by respected researchers from all over the world. The language of instruction is English in all courses.

A total of 20 courses are offered in the following subjects:

- Biological and Environmental Science
- Chemistry
- Computational Sciences
- Information Systems
- Mathematics
- Physics

- Statistics

Students are welcome to participate in the following courses:

- NANO1: Where are the protons? Measuring and modelling proton equilibria in complex macromolecular systems
- NANO2: Materials for Nanophotonic Applications
- CH1: Towards circular economy of metals - using hydrometallurgy
- CH2: Bioinorganic Chemistry
- CH3: State-of-the-art of Fluorescent Probes: Chemistry for Molecular Biology and Medicine
- COM1: Fast Boundary Element Methods
- COM2: Baire's theorem and some of its consequences
- COM3: Data-driven optimization via search heuristics
- COM4: Numerical Methods for Finance
- IS1: Online Social Media Analytics
- IS2: Optimization Approaches to Analyzing Robustness of Complex Networks
- IS3: Accessible and Inclusive Design of ICT: Foundational Introduction to Human Sensory, Cognitive, and Physical Limitations and Technological Solutions
- MA1: Optimal Mass Transportation and Geometric Inequalities
- MA2: Stochastic calculus of variations and normal approximations
- MA3: Lectures on optimal entropic transport
- PH1: Inflationary Cosmology and Primordial Perturbations
- PH2: Gamma-ray spectroscopy
- PH3: Transition probabilities as a probe for nuclear structure
- PH4: Nuclear properties and the astrophysical r process
- STAT1: Value of information analysis in spatial models

Participation in the courses is free of charge, but students are expected to cover their own costs, including travel, accommodation.

More information on the courses and the application at: <http://www.jyu.fi/summerschool>

**Deadline for applications is 30th of April 2017!**

We would greatly appreciate it, if you could kindly forward the information on the Summer School to any interested parties such as students and colleagues.

On behalf of the Organizing Committee of the 27th Jyväskylä Summer School,  
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(secretary of the Summer School)  
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