

## The 29<sup>th</sup> Jyväskylä Summer School

5<sup>th</sup> – 16<sup>th</sup> August 2019

University of Jyväskylä

Do you want to experience the bright summer nights in Finland, boost up your academic knowledge of STEM - science, technology, engineering, mathematics - during the summer break, and create social networks and memories? Jyväskylä Summer School offers you the opportunity to challenge yourself, develop your skills and pushes you forward towards a successful career in your field of interest. The Summer School brings together participants from all around the world, so you also get the chance to spend time in an international science community.

The 29<sup>th</sup> Jyväskylä Summer School offers courses for advanced Master's students, PhD students and post-docs in various fields of natural sciences, mathematics and information technology. Students from all over the world are encouraged to apply. Jyväskylä Summer School provides students with an excellent opportunity to participate in a large number of courses and benefit from high-quality interdisciplinary teaching by respected researchers from all over the world. All courses are taught in English.

Courses will be offered in the following subjects:

- Biological and Environmental Sciences
- Chemistry
- Cognitive Science
- Computational Sciences
- Cyber Security
- Mathematics
- Nanoscience
- Physics
- Statistics

### **Courses offered in 5 - 9 August 2019:**

- BIO1: Towards Sustainable Development Goals: the Nexus of Water, Food and Energy
- CH1: Synthetic Photochemistry and Photocatalysis
- NANO1/BIO2/PH2/CH5: Biomineralization and Biological Materials
- MA3: Selected Topics in the Theory of Backward Stochastic Differential Equations
- STAT1: Bayesian Nonparametric Statistics
- COM1: Iterative Regularization Methods for Inverse Problems
- COM2: Human Factors Methodology and Analysis in Programming Language Design
- COG1: Inclusive and Accessible Design of ICT: Foundational Introduction to Creating Technology for Humans with Diverse Sensory, Cognitive and Physical Abilities
- CYB2: Network and Information Security

### **Courses offered in 12 - 16 August 2019:**

- CH2: Electroorganic Synthesis
- CH3/BIO3: Validation of Analytical Method and Evaluation of Measurement Uncertainty
- NANO2/CH4: Methods for the Characterization of Supramolecular Complexes
- PH1/NANO3: Spin Qubits in Solid-state: Introduction, Implementation and Operation
- MA1: Large-scale Geometry of Lie Groups
- MA2: Introduction to Geometric Control Theory
- COM3: Risk, Performance and Decision Analysis
- CYB1: Changing Security and Hybrid Threats

Participation in the courses is free of charge, but participants are expected to cover their own costs, including travel, accommodation, meals, insurance and possible visa costs.

More information on the courses and application instructions at: [www.jyu.fi/summerschool](http://www.jyu.fi/summerschool)

**Deadline for applications is 30th of April 2019!**

For any further questions please do not hesitate to contact [jss@jyu.fi](mailto:jss@jyu.fi).