**We invite PhD applications in the following subject areas:**

**Mathematics**

-       Barton                 Mathematical Models of Evolution

-       Edelsbrunner     Algorithms, Computational Geometry and Topology

-       Erdős                    Mathematical Physics, Probability

-       Fischer                 Theory of Partial Differential Equations, Applied and Numerical Analysis

-       Hausel                 Geometry and its Interfaces

-       Maas                    Stochastic Analysis, Optimal Transport

-       Seiringer             Quantum Statistical Mechanics, Mathematical Physics

-       Wagner               Discrete and Computational Geometry and Topology

**Physics**

-    Danzl                 Nanoscale Photonics for Biology

-    Erdős                  Mathematical Physics, Probability

-    Fink                     Quantum Integrated Devices

-    Hof                     Turbulence, Fluid Dynamics, Bio-Fluidics

-    Katsaros            Nanoelectronics

-    Krogstrup          Quantum Materials

-    Lemeshko         Theoretical Atomic, Molecular, and Optical Physics

-    Seiringer           Quantum Statistical Mechanics, Mathematical Physics

-    Serbyn               Theoretical Condensed Matter Physics and Quantum Dynamics

-    Tkačik                Theoretical Biophysics and Neuroscience

**Computer Science**

-    Alistarh              Distributed Algorithms and Systems

-    Bickel                 Computer Graphics and Digital Fabrication

-    Chatterjee        Game Theory and Software Systems Theory

-    Edelsbrunner   Algorithms, Computational Geometry and Topology

-    Henzinger         Design and Analysis of Concurrent and Embedded Systems

-    Kolmogorov      Computer Vision and Discrete Optimization

-    Lampert            Computer Vision and Machine Learning

-    Pietrzak             Cryptography

-    Wagner             Discrete and Computational Geometry and Topology

-    Wojtan              Computer Graphics and Physics Simulation

**Biology**

-       Barton                 Evolutionary Genetics

-       Benkova              Hormonal Cross-Talk in Plants

-       Cremer                Behavioral and Evolutionary Ecology

-       Danzl                   Nanoscale Photonics for Biology

-       Friml                     Developmental and Cell Biology of Plants

-       Guet                     Systems and Synthetic Biology of Genetic Networks

-       Heisenberg         Cell and Developmental Biology

-       Janovjak              Synthetic Physiology

-       Kicheva                Tissue Growth and Developmental Pattern Formation

-       Loose                   Self-Organization of the Cell

-       Sazanov               Structural Biology of Membrane Protein Complexes

-       Siegert                 Neuroimmunology in Health and Disease

-       Siekhaus              Invasive Migration of Immune Cells

-       Sixt                       Morphodynamics of Immune Cells

-       Tkačik                  Theoretical Biophysics and Neuroscience

-       Vicoso                  Sex-Chromosome Biology and Evolution

**Neuroscience**

-       Csicsvari              Systems Neuroscience

-       Danzl                   Nanoscale Photonics for Biology

-       Hippenmeyer     Genetic Dissection of Cerebral Cortex Development

-       Jonas                    Synaptic Communication in Hippocampal Microcircuits

-       Jösch                    Neuroethology

-       Novarino             Genetic and Molecular Basis of Neurodevelopmental Disorders

-       Shigemoto          Molecular Neuroscience

-       Siegert                 Neuroimmunology in Health and Disease

-       Tkačik                  Theoretical Biophysics and Neuroscience

**Data Science and Scientific Computing**

-    Barton               Evolutionary Analysis of DNA Sequence Variation

-    Bickel                 Computer Graphics and Digital Fabrication

-    Guet                   Systems and Synthetic Biology of Genetic Networks

-    Kolmogorov      Computer Vision and Discrete Optimization

-    Lampert            Computer Vision and Machine Learning

-    Tkačik                Theoretical Biophysics and Neuroscience

-    Vicoso                Sex-Chromosome Biology and Evolution

-    Wojtan              Computer Graphics and Physics Simulation

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