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Christmas Greeting from the SCI School Management

[video](#)



Ramis Örlü, Photographer: Tobias Ohls, KTH

Effect of face-masks during air-borne pandemics

Ramis Örlü, Lisa Prah Wittberg, Michael Liverts and Sembian Sundarapandian from the Department of Engineering Mechanics at KTH have been studying the Effect of face-masks during air-borne pandemics from fluid mechanical aspects. The project and its results are discussed in an [article by Luleå University of Technology](#). Several national newspapers and tv reports have covered the research that was presented on Dec 15th to the Swedish Research Council (VR) and the Public Health Agency (FHM).

[Read article](#)

Photo: Erik Thor, Sveriges Unga Akademi

Interviewing Josefin Larsson

Josefin Larsson Josefin Larsson, an associate professor working in astrophysics, and Deputy Head of the Physics Department at KTH, was recently promoted to Wallenberg Scholar. We interviewed her regarding her work, career and more.

[Read article](#)

Interview with Lisa Prah Wittberg

Lisa Prah Wittberg (Engineering Mechanics Department) has been appointed as a professor in fluid



Interviewing Mattias Blenow

Mattias Blenow has recently been promoted to professor of theoretical physics with a specialization in

mechanics with a specialization in multiphase flows. We interviewed her, regarding her promotion and research work.

[Read interview](#)

astroparticle physics. We interviewed him regarding his work, career, and more.

[Read interview](#)



We met with David Rydh

David Rydh is a professor in the Department of mathematics at KTH. He works within algebraic geometry, in a field called moduli theory.

David was recently elected as a member of the Royal Swedish Academy of Sciences in the Class of Mathematics. This concludes a successful year for David who also received the Göran Gustafsson Prize in Mathematics 2021 for young researchers up to the age of 45 in the spring.

[Read interview](#)

SCI PhD Student Council

Thank you for your commitment in our activities throughout this year!
We have a new council for 2021 that is announced on our [website](#) !
We trust that they will do a great job!



Summary of 2021 Some highlights

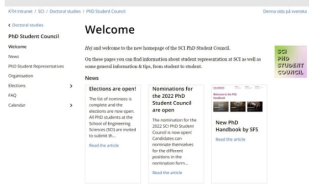


Applied & Computational Mathematics course credits: 100 → 80



On site social activities during Autumn (afterwork, Gröna Lund visit etc.)

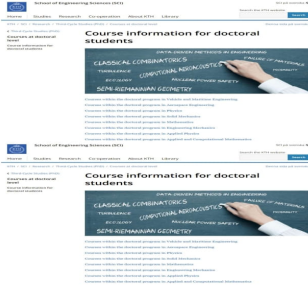
New webpage on the SCI intranet



Workshop: Art of presenting & writing in science



New page for PhD courses at SCI (work in progress)



Time compensation for 2022 SCI PhD council approved!

2021-12-21

Election Meeting: 2022 SCI PhD council

Website



Map idea wins Future Campus Challenge

The results are in! The winner of the Future Campus Challenge, the competition for new ideas for the KTH campus, is Gustaf Törner with KTH Maps, a solution that will make it easier to find a place to study on Campus.

[Read more](#)



New program for researchers curious about innovation

What do impact, commercialization, and innovation really mean? How do you take your research from the lab to the market, and how can you figure out if you might want to try? This program will give you the answers you need –with minimal time spent.

KTH Innovation Discovery Program

[Read more](#)

We congratulate

Sigrid Källblad has been appointed as docent in mathematics with specialization in mathematical statistics, December 2021.

Recent Doctoral Graduates

Jonatan Alvelid (Biological Physics) Automating STED microscopy for functional and structural live-cell imaging

Lena Leitenmaier (Applied and Computational Mathematics, Numerical Analysis) Analysis and numerical methods for multiscale problems in magnetization dynamics

Ola Kenji Forslund (Physics, Material, and Nano Physics) 1D to 3D Magnetism in

Quantum Materials: A study by Muons, Neutrons & X-rays

Parikshit Upadhyaya (Applied and Computational Mathematics, Numerical Analysis)
Numerical algorithms for nonlinear eigenproblems with eigenvector nonlinearities

Quentin Verron (Biological Physics) Imaging-based methods for natural killer cell studies at the single-cell level

Sara Cavallaro (Physics, Biological and Biomedical Physics) Development of Techniques for Characterization, Detection and Protein Profiling of Extracellular Vesicle

Thomas Lettner (Physics, Optics, and Photonics) Bright and strain-tunable semiconductor quantum dot devices

Tianfang Zhang (Applied and Computational Mathematics, Mathematical Statistics)
Probabilistic machine learning methods for automated radiation therapy treatment planning

Recent Licentiate Exam

Jakob Sjöstrand (Engineering mechanics) Transient vibrations from dry clutch operation in heavy-duty truck powertrains

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