

# Schedule SIYSS 8 December 2020

The seminar day consists of five sessions that you are able to register for. During the presentation sessions you will be able to ask questions directly to the SIYSS participants through a live chat. There will be a moderated Q&A session after each presentation session, in which the participants respond to the questions live. We hope to be able to respond to all of the questions, but unfortunately we can not guarantee that this will be possible.

For more information and registration, please visit: [ungaforskare.se/siyss/attend](http://ungaforskare.se/siyss/attend)

## 08:30-09:30 Session 1: Presentations within the field of Physics and Mathematics

- Christopher Ong (Singapore): "Symmetry-breaking Polygons on a Rotating Fluid Surface"
- Cédric Willemin (Switzerland): "The Use of Electromagnetic Waves for Space Observation"
- Lihuang Ding (China): "A Simpler Proof of Atiyah-Segal Completion Theorem"

## 10:00-11:00 Session 2: Panel discussion on the topic of Science Method

A discussion between four of our participants.

## 11:30-12:30 Session 3: Presentations within the field of Physics and Mathematics

- Luciana Marconi (Switzerland): "The Algebra of Magic Squares"
- Mengyang Li (China): "Study on Wireless Power Transfer Technology Toward the Application for Cardiac Pacemaker"
- Hannah Nelson (USA): "Studies of Top Quark Decay Kinematics"

## 13:00-14:00 Session 4: Presentations within the field of Biology, Biochemistry and Computational Biology

- Chenxi Zeng (China): "The Extraction of the Digestive Tract Secretions of Land Leeches"
- Cynthia Chen (USA): "Decoding Neural Networks: Discovery of Anti-Tumor B Cell Receptor Motifs Using a Novel Sequence-Based Computational Framework"
- John Migliore (USA): "Selective screening of natural antibiotics through lead discovery"
- Annie Ostojic (USA): "Targeting Cancer via Signaling Pathways: A Novel Approach to the Discovery of Gene CCDC191's Double-Agent Function using Differential Gene Expression, Heat Map Analyses through AI Deep Learning, and Mathematical Modeling"

## 14:30-15:30 Session 5: Presentations within the field of Sustainability

- Lillian Petersen (USA): "Real-Time Prediction of Crop Yields From MODIS Relative Vegetation Health: A Continent-Wide Analysis of Africa"
- Martin Morales Trejo (Mexico): "Retention and Transformation System of Polluting Substances Generated by Gasoline Automobiles"
- MinJae Kim (Republic of Korea): "Application of PEDOT:PSS Thin Film Fabricated via Hot-casting as Hole Transport Layer of Perovskite Solar Cell"