

Reaalteaduste doktorantide konverents 2019  
Workshop-seminar for PhD students

# The Art of a Popular Science Talk



Euroopa Liit  
Euroopa  
Regionaalarengu Fond



Eesti  
tuleviku heaks

## Korraldab | organised by:

Eesti Maaülikool | Estonian University of Life Sciences  
Põllumajandus- ja keskkonnainstituut  
Institute of Agricultural and Environmental Sciences  
Tartu Ülikool | Tartu University  
TÜ Loodus- ja täppisteaduste valdkond  
Faculty of Science and Technology  
10–11 May 2019

Voore külalistemaja hotell | Voore guesthouse

## Üritust rahastab:

Eesti Maaülikooli ASTRA projekt "Väärtusahelapõhine biomajandus"  
Tartu Ülikool, Loodus ja täppisteaduste valdkond

Programmi versioon / Program version — 9. mai 2019. a.

### Eesmärgid | Why we do it:

Tulevase teadlaspõlvkonna ja ühiskonna sidususe suurendamine.  
Treenida doktorante esitama oma tööd 'lihtsurelikele-arusaadavas-keeles'  
Populariseerida oma tööd, eriala ja teadust laiemalt tavakuulajale:

- köitvalt
- arusaadavalt
- lühidalt
- atraktiivselt

Vormiks on:

1. eeltoodust lähtuvad doktorantide lühiettekanded oma tööst ja erialast ning
2. arutelud esituste arusaadavuse, köitvuse ja atraktiivsuse teemal.

Kuulajaskonnaks ja hindajateks on teised doktorandid ja teadurid LT erialadelt, meedia, gümnaasiumiõpilaste absoluutne paremik loodusteaduslikel erialadel.

Suulise ettekande ajalimiit on 10 min (+ 10 min tagasiside, arutelu, küsimused).

Ürituse ametlik osa on inglisekeelne.

To bridge the gap between next generation of scientists and the society.

Training, training, training — to communicate your research to 'mere mortals'

Public outreach, bring your research, your topic, and science in general closer to society and common people:

- absorbingly
- comprehensibly
- concisely
- irresistibly

How we do it:

1. short student talks about their PhD project
2. feedback on conciseness, comprehension, attractiveness

The audience and evaluators are other science and technology PhD students, public media, and high-school students, who are at the absolute top in science and technology.

Talks are 10 min (+ 10 min for feedback).

Language: English

### Präaünikud | Awards:

Parematele esinejatele on auhindadeks sülearvutid.

Eesmärgikohast paremust hindab osalejatest moodustatud komitee. Kes hindab (i) arusaadavust, (ii) huvitavust, (iii) artistlikkust

The best talks will be awarded laptop computers.

The ranking will be done by a committee quasi-randomly picked from the audience. We evaluate (i) how comprehensible (ii) how interesting (ii) artistic skills

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May 10 mai

- 09:00 Ärasõit, Vanemuise alumine parkla, Tartu | Departure, lower parking lot of Vanemuine theatre
- 10:20 Pirukas, morss ja kange kohvi. Majutumine | Light refreshments, find you room
- 10:40 TERVITUS JA SISSEJUHATUS | INTRO AND WELCOME
  - 11:00 **Marju Himma**: Science communication — how to make the most out of it. Teaduskommunikatsiooni lühikursus
  - 11:30 – 11:50 **Maria Neem**: Polarized W boson in Weak decays
  - 11:50 – 12:10 **Katri Pärna** : Could we predict your risk for the “sugar” disease?
- 12:10 MNERAALVESI KOHV SELJASIRUTUS JA HINGETÕMME | MINERAL WATER, CATCH YOUR BREATH
  - 12:30 – 12:50 **Iuliia Burdun**: Climate, Wetlands & Satellites
  - 12:50 – 13:10 **Janika Raun**: How to measure tourism flows?
- 13:20 LÕUNA | LUNCH
  - 14:10 – 14:30 **Jaanus Liigand**: Let’s quant’em like they do on the Discovery Channel
  - 14:30 – 14:50 **Raul Sampaio de Lima**: Environmental Science
  - 14:50 – 15:10 **Moorits Mihkel Muru**: Looking for the cosmological highways
  - 15:10 – 15:30 **Rafieh Mosaheb**: Quantum Computing-Catching up 5000 years of algorithm research in a few decades
  - 15:30 – 15:50 **Ove Korjus**: Study of solid oxide fuel cell ceramic anode stability using operando high temperature X-ray diffraction simultaneously with electrochemical impedance analysis
- 15:50 MNERAALVESI KOHV SELJASIRUTUS JA HINGETÕMME | MINERAL WATER, CATCH YOUR BREATH
  - 16:10 – 16:30 **Laurits Puust**: Development of light converters for solar panels and LEDs
  - 16:30 – 16:50 **Oleksandr Karasov**: What We Do in the Landscapes
  - 16:50 – 17:10 **Joonas Kollo** : Annual and inter-annual dynamics of Atmosphere – Forest Ecosystem exchange processes
  - 17:10 – 17:30 **Giovanni Marccone**: Sheep welfare and behaviour
  - 17:30 – 17:50 **Mohammad Jamsher Ali**: Ruin Probability for merged risk processes with correlated arrivals.
- 18:00 ... ÕHTUSÖÖK, MULJETAMINE | DINNER, CHANGE EMOTIONS

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May 11 mai

• 08:30 HOMMIKUSÖÖK | BREAKFAST

- 09:30 – 09:50 **Mariliis Hinnu**: Bacterial reporter system for studying mistranslation during antibiotic treatment
- 09:50 – 10:10 **Liisi Talas** : Past biodiversity of lakes
- 10:10 – 10:30 **Sylvester Ikenna Ofili**: Environmental conditions and metal geochemistry of the Fennoscandian Cambro-Ordovician black shale formation

• 10:40 MNERAALVESI KOHV SELJASIRUTUS JA HINGETÕMME | MINERAL WATER, CATCH YOUR BREATH

- 11:10 – 11:30 **Martin Kala**: The Virus-Host Interactions of Papillomaviruses Science Education
- 11:30 – 11:50 **Zahra Alijani** : Fuzzy Logic: History, Methodology and Applications to Real World
- 11:50 – 12:10 **Jaana Lilloja**: Developing carbon-based catalysts for electroreduction of oxygen

• 12:30 LÕUNA | LUNCH

- 13:10 **Kaarel Krjutškov, Friedrich Kaasik, Marju Himma**: Aftermath. What did we learn? Losers and winners. Summary.
- 13:30 Awards. Departure.

