UEFDSA newspaper

Joensuu/Kuopio, Finland

VOL.I. . . No.2   *MAY 30, 2019*   ZERO BITCOINS

GREETINGS FROM UEFDSA

By JUHA-MATTI HUUSKO

This is the second issue of UEFDSA newspaper. The newspaper appears once a month in both pdf and print. You can find all issues from UEFDSA's web pages https://www.uef.fi/fi/web/dsa

The length of the newspaper varies a lot, depending on how much content is available. Any contributions are welcome.

To make the newspaper more established, this issue tries to be extra fancy. The length is around 8 pages and the printed version utilizes thicker paper.

Contents

Coming events

- Saturday 1.6. at 12:30
Joensuu monthly meetup
Café Rosé
Kauppakatu 33, Joensuu
- Monday 3.6. at 16:15–18:30
Miniseminar on immigrants' health issues
Yhteisötila Aava
Rantakatu 23, Joensuu
- Tuesday 4.6. at 19:00
Kuopio monthly meetup
Bierstube
Kasarmikatu 5–7, Kuopio
- Thursday 6.6.–Saturday 8.6.
Doctoral Conferment Ceremony at Joensuu campus
- Sat 15.6. UEF summer school registration ends
- Mon 17.6. at 16–17
webinar in Finnish: results of the Doctoral student survey
https://uef.zoom.us/j/735033616
- Wed 19.6. at 15–16
webinar in English: results of the Doctoral student survey
https://uef.zoom.us/j/748371774

UEFDSA newspaper

Appears once a month in pdf and print.
- editor-in-chief: Juha-Matti Huusko
- philosopher-in-chief: Ari Tervashonka
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UEFDSA 2019

- Miia Hurskainen, chair
- Ari J. Tervashonka, vice chair
- Bukunmi Akinwunmi, secretary
- Juha-Matti Huusko, treasurer
- Hasan Sohail, events manager
- Katarzyna Wisniewska (Kasia), social media coordinator
- Kenneth Muhumuza, material manager
Associate board member:
Katinka Käyhkö

To join as a member in UEFDSA, you need to
- be a PhD student in UEF
- pay a 10€ membership fee once
- fill a membership application form
More information at:
http://www.uef.fi/fi/web/dsa/membership
Also non-members are welcome to join our events. From non-members, we usually collect a 2€ fee to cover for the snacks present, if any.

Comments by SMS

Who is cooking delicious spicy food in Latolankatu 9F? It smells so good! Whenever I come home, I get hungry by while climbing the stairs.

Would you like to contact your friend on our SMS corner? Send your SMS for the next issue to: +358 40 528 2815

Eventful summer ahead

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Summer has come with its many events.

Finnish high school graduates will get their white hats on Saturday 1.6. The next week after that, UEF doctors celebrate their black hats in the Doctoral Conferment. The conferment takes place every 5 years. Next conferment in Kuopio is in June 2020.

Hats and a garland.

Nature has woken up too. Where the forest has been cut down, certain mushroom are breaking down the cellulose of the wooden chips and are growing during May-June. Due to its wavy shape, the mushroom is called "korvasieni" (=ear mushroom) in Finnish. However, if not property handled, this mushroom is poisonous! Eat only those mushroom, which you can identify and process with certainty. In most cases, it is best to pick mushroom with specialists who know what they are doing.

eXpeRience your reality 19.–30.8.

UEF organizes many *summer schools* in various topics. The registration will end on 15.6.2019. Participation is free for UEF students. Non-UEF students are required a small course fee.
Links:
• Doctoral Conferment in Joensuu during 6.–8.6.2019:
`http://www.uef.fi/en/web/promootio`
• Previous conferment in Joensuu was held during 28.–30.8.2014:
`https://www.youtube.com/watch?v=8Pkop6lfUu4`
• More about UEF summer schools:
`http://www.uef.fi/en/web/summerschool/how-to-apply`
• Joensuu Summer School on Optics 2019: eXpeRience your reality, is arranged during 19.8.–30.8.2019:
`http://www.uef.fi/en/web/photonics/joensuu-summer-school-on-optics`

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PhD student well-being

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Merja Lyytikäinen provided us with the results of doctoral students' well-being survey. In total 382 PhD students answered to the survey. The response was 24.9 % out of 1773 PhD students of UEF.

UEFDSA has got almost 3 pages of comments and feedback. Step-by-step, the board will start to process the feedback.

Other results of the survey will be discussed in webinars (online video talks), which will take place:

• In Finnish: Monday 17.6. at 16–17:
`https://uef.zoom.us/j/735033616`
• In English: Wednesday 19.6. at 15–16:
`https://uef.zoom.us/j/748371774`

Miniseminar on immigrant's health issues

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Time: On Monday 3.6. at 16:15–18:30
Place: Yhteisötila Aava, Rantakatu 23, 2nd floor, Joensuu (Pohjois-Karjalan Sosiaaliturvayhdistys)
Program:
• 16 coffee and fruits served
• 16:15 Speeches and discussions
• Malissa Underwood: Students' and university researhers' health issues
• Ville Elonheimo: Irregular migrants' access – or not – to health care (Paperittomien pääsy – tai ei – terveydenhoitoon)
• 18:15 Concluding remarks
The seminar languages are English and Finnish.

Malissa Underwood is nurse and student on public health masters program.

Ville Elonheimo is coordinator of multicultural work in North Karelian Society for Social Security, and coordinator behind network of Joensuu Global Clinic.
• Yhteisötila Aava:
`https://www.jelli.fi/toiminta/yhteisotila-aava/`
• Pohjois-Karjalan Sosiaaliturvayhdistys ry:n monikulttuurisuustyön Moi2020-hanke (STEA-rahoitteinen):
`https://www.pksotu.fi/toiminta/monikulttuurisuus/`
• Pohjois-Karjalan sairaanhoitajat ry:n monikulttuurisen hoitotyön työryhmä:
`https://sairaanhoitajat.fi/yhteystiedot/pohjois-karjalan-sairaanhoitajat-ry/`

Figure 1: Participants of the HYVÄT 5 party. Larger photo: https://blogs.helsinki.fi/phd-association/files/2019/05/IMG_7103.jpg

HYVÄT 5 YEARS

By JUHA-MATTI HUUSKO

On May 13th, our fellow association in Helsinki had its 5 year anniversary party.

HYVÄT stands for the Finnish phrase "Helsingin yliopiston väitöskirjatutkijat", which means University of Helsinki PhD students.

UEFDSA sent **Juha-Matti Huusko** and **Sandra Sandar** as representatives to the party. People from Aallonhuiput (Aalto University Doctoral Student Association) were also present among the guests guests.

Having read all books of Plato, Juha-Matti felt as if he had reached the Symposium of Agathon[1]. Indeed, the names of both Hyvät[2] and Aallonhuiput[3] have a very positive vibe in Finnish language.

Anton Saressalo, current chairperson of HYVÄT, wore a festive red tie and opened the party by giving a short welcoming speech. HYVÄT board accepted various greetings from associations. UEFDSA supported the oral hygiene of the 5 year old, by bringing box of Elmex toothpaste and insisted on a group photo with Anton.

Guests taking food

After the formal opening, guests were given some food – salad, bread, cheese, cake and various things. People stormed to the queue and hungrily were inspecting the coats of arms in the walls of Savolainen osakunta. "I was here last time in 19.4.2005, the very day when Joseph Alois Ratzinger became the previous pope. Huh, imagine a singing rat." – thought Juha-Matti.

The food was accompanied by beverages and discussions. People met each other and compared the activities in different associations.

All in all, Happy Birthday HYVÄT!

Familiarize yourself to

• webpages of HYVÄT: https://blogs.helsinki.fi/phd-association/

• Aallonhuiput: https://www.aallonhuiput.fi/

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[1]agathon = good (Greek)

[2]hyvät = good people

[3]aallonhuiput = peaks of waves / peaks of humankind

How to get funding?

By ARI J. TERVASHONKA, VICE-CHAIR

If you overthink several days or more your funding application, you are doing them wrong. Now why is that, wouldn't it be better to have a lot of effort for the papers and polish them to perfection? Yes and no. While doing so, people add way too much content that is acid for anyone who wants to understand on a basic level what the project is about.

The reality is that the people who review those funding applications need to read in some cases hundred or more applications. In case of smaller funders the amount could be more. This means that if they ask 6 different papers in theory, they are at least browsing through 100 applicants x 10–25 papers of information. That means each individual who needs to read those papers has wobbling thousands of pages to read in a matter of weeks. To help this effort they might start to read papers from day one as applications come. This means that those who submit their applications on the first day, might get into an advantageous position since your paper is read with more focus than all the rest. Additionally, your paper is not compared to others in similar manner than all the rest are compared to yours. Be first.

But let's get back to the matter of pages. If someone needs to read thousands of pages of text, more appealing documents are those that are arranged in clear, basic manner with open intention and not just hint of quality. Ideas need to jump from the paper, they cannot be in the rigorous scientific form that you used when applying to University. Your audience might not even have any background on what you are doing. If a PhD is going to be ground breaking in some way or another, there might not be anyone who can compare it to something that has been done before. These and many more reasons support the fact that the papers have to be very clear with focus and argumentative issue needs to be plain open. Developing nice interplay in text for a week or two doesn't cut here.

Now the question is how many funders do you write to per year? To 3, 14, 20, over 30? No matter what is the amount of applications, we are here to do science. There is a time limit on how much we can put into funding applications. Let's say you are applying 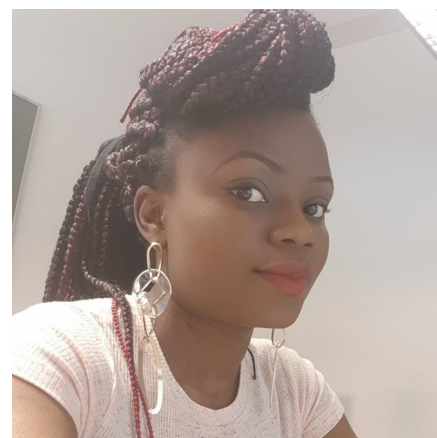to 20 funders per year. That would mean that even if you try to make 1 application per day, it would take at least 20 days and those are good writing days. This is where the miracle of duplication and modular writing comes along. Usually there are several applications open at the same time. Basically, when you have been writing all kinds of application texts, you only need to re-write part of the biggest texts once per year. In many cases, you can just cut the best parts and form text modularly and sometimes it might mean that you do 4 applications on the same day. This will enable you to apply for more than 20 applications per year. Why this is important? Because there is eventually only a few percentages or less chance to get funding from one funder.

Sounds bad, right? The good thing is that in Finland there are over 1000 different funders. At the beginning, you should use at least a week or two browsing them through and put the ones that you can apply to in Excel[4]. There are additionally global funders from varying countries. They might offer very different funds, but if you add them into the equation you have more percentage chance of getting funding. Many of them are not even mentioned in any Finnish lists of funders.

Introducing a board member: Bukunmi

Hello! 😎 My name is Bukunmi Akinwunmi. I am a 3rd-year PhD student at the Department of Chemistry. My research is about bentonite barrier to be used in the Finnish nuclear waste repository. ☢️ In @uefdsa, I am the board's secretary for 2019-2020, as I was for 2018-2019. 📒✏️ My main role is to put together nice minutes after every meeting. 🙂🙂 I love being alone but I also hang out with my friends for fun activities. 😜 I am not a good singer or dancer, but that has never stopped me. . . I currently have a business @abike_hairways where I sell hair care products and share hair tips. ✂️ I don't joke with my sleep, food and faith. 🛏️ And, I believe the world will be a better place if everyone would watch Grey's anatomy.

Bukunmi Akinwunmi

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[4]Or in some other spreadsheet, such as LibreOffice Calc.

Figure 2: Nature covered in snow in Kuopio. Photo credit: Rowmika Ravi.

Winter Wonder Land

By ROWMIKA RAVI,

DEPT. OF INTERNAL MEDICINE, KUOPIO

The context: I arrived in Finland a year ago, first time on a white snowy evening. It was also my first time extravagant experience in snow. I admired its beauty everyday. One fine day after a long time when it was finally time for spring, I felt as if a bride (dressed in white with face covered under her veil) has lifted her veil to unveil her beauty. The place looked really beautiful and bright but I realised I had actually fallen in love with the snow. I really love the snow clad nature and wait for it through spring and summer. Finland is definitely a winter wonder land.

Adorned like a bride in white lacy gown,
Elegant frills overflow to sweep the lawn;
Her face hidden away under the veil,
A mysteriously pure frail...

What prettiness lies beneath?
What glory she hides underneath?
I would have brooded over it a thousand times;
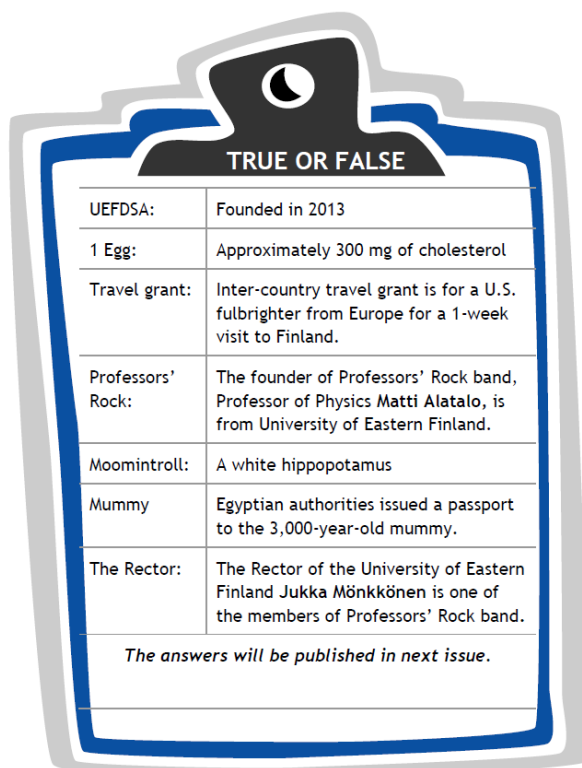When she decides to unveil one day so fine...

Slow and shy she lifts her veil,
As the sun shines on her stunning face;
Birds sing while the greens dance
Nature explodes with grace...

What was hidden away under the white,
Is a breathtakingly beautiful sight;
But her under the white kind,
Has long stolen my heart and mind...

So I wish there was snow again,
Mysteriously divine she could've remained;
I could bring back my thousand line of thoughts,
While I watch her adorned in magical white gown,
Elegant frills overflowing to sweep the lawn...

Puzzle: True or false

By SANDRA SANDAR

TRUE OR FALSE	
UEFDSA:	Founded in 2013
1 Egg:	Approximately 300 mg of cholesterol
Travel grant:	Inter-country travel grant is for a U.S. fulbrighter from Europe for a 1-week visit to Finland.
Professors' Rock:	The founder of Professors' Rock band, Professor of Physics **Matti Alatalo**, is from University of Eastern Finland.
Moomintroll:	A white hippopotamus
Mummy:	Egyptian authorities issued a passport to the 3,000-year-old mummy.
The Rector:	The Rector of the University of Eastern Finland **Jukka Mönkkönen** is one of the members of Professors' Rock band.

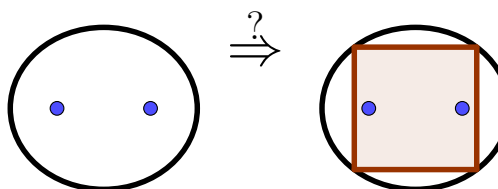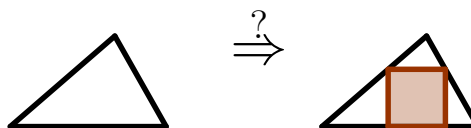*The answers will be published in next issue.*

Math: Square on a curve?

By JUHA-MATTI HUUSKO

(a) Imagine that you are given a triangle of any shape. How can you find a square such that
- one of its sides is on the side of the triangle, and
- two corners are on the other sides of the triangle?

How many solutions there are?

(b) Imagine that you are given an ellipse with its two foci. How can you find a square such that its corners lie on the ellipse?

How many solutions there are?

(c) Some related questions regarding ellipses:
- given an ellipse, how can you find its center?
- given an ellipse and its center, how can you find the two foci?

(d) Can you solve the question if instead of a triangle or ellipse, you are given a more general curve?

(e) A related video:

https://www.youtube.com/watch?v=AmgkSdhK4K8

Introducing a board member: Juha-Matti

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Juha-Matti Huusko

Hello! I am Juha-Matti Huusko, the current treasurer of UEFDSA. Two years ago, in 2017, I finished my PhD in mathematics. I am currently working as a postdoc at UEF. In UEFDSA, my job is to check the associations balance in the netbank. I also update our web pages, carry stuff with my car and do various things.

So who am I and what makes me tick?

When I was a young child, my father used to ask me math questions. Therefore, in the school, math felt easy and interesting to me.

In 2007, I started to study mathematics and physics at UEF. After 6 years, I became a qualified teacher in math and physics. However, mathematics was so fascinating, that I decided to do a PhD.

My dissertation is about differential equations for complex analytic functions. Does this have anything to do with real life? Are there any applications? Actually, analytic functions are very nice and simple: they map one plane domain to another in such way that the angles are preserved. Here is an example. On the left, there is a dart board, which you can usually find in public houses. Let the red bullseye in the center be a positive point charge and let the boundary circle be a metal ring. In this case, the radial lines are the electric field lines. Moreover, the circles (meeting the radii orthogonally) are the equipotential lines, say 500 V, 300 V, starting from the center. Now! If you want to draw the same physical diagram inside a triangle, it is enough to find an analytic function mapping the circle to the triangle. By so-called Riemann mapping theorem, this can be always done.

A complex analytic mapping.

So, I am a math and physics teacher with a PhD, who hopefully can explain things in a down-to-earth way.

I am good with computers. It started during my MSc, when I heard that "to write physics laboratory reports you need to do numerical calculations and write lots of formulas with computer". To succeed better in my studies, I learned to write with LaTeX and to use software for numerical calculations (I recommend GNUOctave for that). Nowadays, I enjoy drawing pictures with computers. For example, the "triangle with electric field picture" is drawn by me. Also, I do vector graphics. If you are having problems with your figures, you can ask me for a hint.

Last year, I was an IT support person in Department of Physics and Mathematics. During that time, I learned about free and open-source software. Installing proprietary software on computers can be annoying. And occasionally, the licensing does not work. How can a text editing software (such as Word) and a pdf reader (such as Adobe Reader) not work because of licensing? There have been pdf files as long as I can remember, why do the companies still mess up with people. Also proprietary software spies on people (look at Uyghurs in China). No more proprietary software and Facebook for me. Time to look for alternatives.

In a peculiar way, I am good with languages. In the school, I studied the basic stuff: Finnish, English, Swedish, German. However, in 2015, Gaurav Bose, a photonics student suggested that I would teach him Finnish and he would teach me Bengali. We agreed to meet once in 2 weeks, study together and eat Indian food. A few of Gaurav's friends were also there. So, now I can speak some Bengali and like Indian subcontinental food!

I make language jokes. Between two languages, you can find words which are the same, but have a different meaning. The most fatal example is "once" which means "for-one-time" in English and "eleven" in Spanish. In a hospital drama series, I think it was ER, one Spanish patient followed the pharmacy's instructions in the medicine box and took 11 pills a day and almost died.

It is also amazing, that the base of the natural logarithm, Napier's constant e, has the sequence 1828 twice in its decimal expansion. Namely, e= 2,7 1828 1828 45 90 45 . . . How fabulous! Note also that 90 is twice 45.

So this is me. Want to talk about math, free and open-source software, or languages? Hit me with an email.

juha-matti.huusko@uef.fi

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Would you like to make a video call using free and open source software? Try Jitsi! On computer, call on browser https://meet.jit.si/ For your phone, get the app from ● Google Play ● Yalp Store ● APK Downloader (Unfortunately, not currently available in F-Droid store.)

Tony's hot sauce

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Information:

chili sauce
date of expiry: after 6–10 months
bottled: 20.5.2019
price: 8€ per bottle

Lactic acid fermented mix of

- habanero chili
- garlic
- mango
- onion
- 2 % brine / salt water

Other ingredients:

- apple cider vinegar
- sugar
- xanthan gum (E415)

Order from:
tonys-hot-sauce@protonmail.com

Tony's hot sauce, 8€ per bottle.
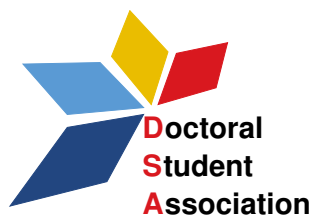
UEFDSA shirt

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We have got 20 shirts with our logo. The shirts are made with good quality sportswear fabric and cost 20€ each.

Order from:
uefdsa@protonmail.com

UEFDSA t-shirt, 20€ per shirt.

Doctoral **S**tudent **A**ssociation

of doctoral students in UEF
The logo on the shirt.

Easy linguistics

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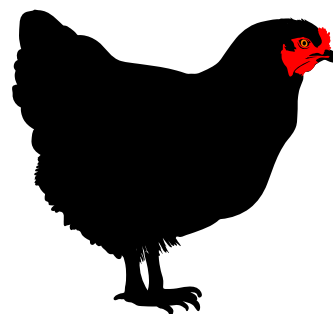**Word of the day:**

Musta kana?
= How are you? (Tagalog)
= black chicken (Finnish)

More about funny coincidences in Finnish and Bengali:
https://imgur.com/a/cCMCq

To our readers

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Regarding the next issue. . .

- if you wish to receive the pdf to your email,

- if you wish to advertise in our newspaper,

- if you want to offer your story, poem, drawing etc. to be published in our newspaper,

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uefdsa@protonmail.com