

# Seminar 2:

## Researcher's path – introduction continues



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Engineering

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# Seminars and schedule 2 cr

WHAT?	WHEN?	TOPICS / ADDITIONAL
<b>Seminar 1: Kick-off</b>	1 September, at 9-11 TU7	Introduction of the course, announcement of the assignments and forming groups Researcher's path – Introduction to practical tips
<b>Aalto Orientation Days for Doctoral Students</b>	4-5 September	Highly recommended to participate Late enrollment to udes@aalto.fi
<b>Seminar 2</b>	15 September, at 9-11 TU7	Researcher's path – introduction continues Communications
<b>Assignment DL</b>	20 September	Practical tips assignment (individual)
<b>Seminar 3</b>	22 September, at 9-11 TU7	Researcher's path – what were the learning outcomes? Research ethics – introduction
<b>Assignment DL</b>	4 October	Ethics (group work)
<b>Seminar 4</b>	6 October, at 9-11 TU7	Research ethics – what were the learning outcomes? Publishing
<b>Assignment DL</b>	11 October	Career assignment (CV, career plan)
<b>Seminar 5</b>	13 October, at 9-11 TU7	CV and career plan workshop
<b>Assignment DL</b>	23 October	Writing assignment (group work)
<b>Feedback sessions for groups (Language instructor William Martin)</b>	27 October	20 min session/group on writing assignment
<b>Seminar 6</b>	10 November, at 9-11 TU7	Panel discussion and tips from graduated doctors
<b>Assignment DL</b>	20 November	Final assignment, diary-type Reflect your learning on seminar topics, Orientation Days and other assignments of the course.

# Programme of today

- **9.20-9.50 Joy & pain of thesis work- Dr. Anu Lehtovuori**
- **Break 15 min**
- **10.05-10.25 Research communication**
- **10.25-11.00 Becomming a researcher – Emma Holmlund**

# General principles of the course

- Dialogue
- Equality
- Openness and confidentiality
- Commitment to the course, group work and assignments



Aalto-yliopisto / Unto Rautio

# Joy & pain of thesis work

- *Thesis work, dissertation, and  
career*

*Dr. Anu Lehtovuori*

**Break 15 min, back at 10.05**

# Research communication

Communications manager  
Niina Norjamäki and  
Communications coordinator  
Ira Matilainen





# Becoming a researcher

- What is a good researcher?

# What kind of qualities does a researcher need?

Professor Joni Pajarinen

- great curiosity, as it involves finding new things and making new observations.
- finding new things requires a lot of effort and that is why researchers need to be resilient.
- it is necessary to be capable of adapting constantly to new situations when expectations do not correspond to reality.
- researchers need to be able to examine things from many different angles.
- researchers are also capable of functioning well with other people because research work is cooperation.
  - <https://www.aalto.fi/en/news/professor-joni-pajarinen-believes-in-the-future-potential-of-robots>
  - New: <https://www.aalto.fi/en/news/one-of-the-most-important-characteristics-of-a-researcher-is-tolerance-for-uncertainty>

# All researchers-in-training must constantly grapple with:

- uncertainty – You have no idea whether the hard work you are putting into your project even matters.
- isolation – Nobody around you understands or empathizes with what you are doing, since they either lack technical context or are too busy with their own creative struggles.

If you can properly manage these two emotions, make forward progress every single day, get private feedback from a mentor every week or two, and get external feedback from paper submissions a few times per year, then you can successfully finish your Ph.D.

**Where can I find information and support for writing and presenting scientific research?**

# When you publish

## Important tools:

- **Manage your references**
- **Structure your article**
- **Write a good abstract (3 credit assignment)**
- **Learn about the publishing process (more in seminar 4)**

**Talk with your professor, advisor, colleagues, peers, search on the internet**

## In the course material:

- [Belt, Möttönen & Härkönen: Practical tips for doctoral students](#)
- [Pekka Belt: How to write scientific articles](#)
- [Writing short articles that engage the reader](#)

# Courses at Aalto

<https://into.aalto.fi/display/enopinnot/Courses+for+doctoral+students>

- LC-1350 Writing Doctoral Research for Engineering and Science, 3 ECTS
- 21E72500 - Finding Joy and Productivity in Academic Writing
- LC-1330 Presenting Doctoral Research 3 ECTS
- LC-1336 Popularize your research, 1-3 ECTS
- LC-L1010 Aalto Research Ethics
- LC-1335 Preparing for the Doctoral Defense, 1 credits
- Writing Clinic and Speech Clinic

# Wrap-up - seminar 2

# Is the following true for you?

- I have gotten some tips and tools for becoming a researcher.



# Upcoming assignments

# **Assignment 1: Researcher's path – Practical tips, reflective writing**

- **Write an reflective essay using Gibbs reflective cycle**
- **DL: 20.9.**
- **The learning outcomes will be discussed in seminar 3**

# Assignment 2: Writing group work

- Do you all have a group?
- Have you all selected a topic and started planning your text
- Remember to include the Author's contribution
- Deadline 23.10.
- Group feedback in late October (31.10) from William Martin.  
**Please enroll your group to a feedback session:**  
<https://mycourses.aalto.fi/mod/choice/view.php?id=1080235>
- If something feels unclear, please contact William Martin (william.martin1970@gmail.com)

# Assignment 3: Research ethics group work

- You should all have a group. Anyone who doesn't know their group?
- Further introduction to the topic in seminar 3 (22.9).
- Assignment deadline 4.10
- The learning outcomes will be discussed in seminar 4 (6.10)
- Research ethics course 23.10.-29.11.2023:  
<https://www.aalto.fi/en/doctoral-education/research-ethics-for-doctoral-students-course>

# Remember also:

- To make notes after every seminar for the final assignment

# Questions? See you in Seminar 3!



# Feedback on the course so far?

<https://presemo.aalto.fi/intro23>