

# Teaching Education and Opportunities at Stockholm University



**NORDITA**  
The Nordic Institute for Theoretical Physics

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**Stockholm  
University**

**13 June 2023**

# About me

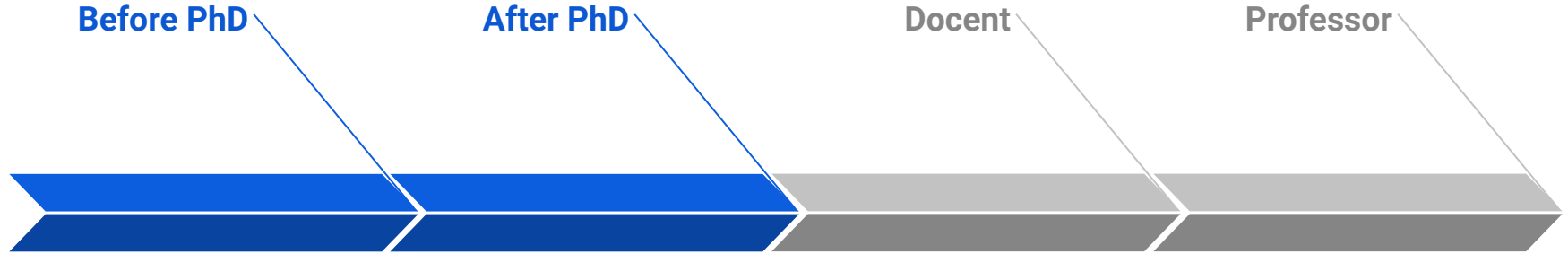
## Resume

- 2015-2019: **PhD in astronomy**, Stockholm University
- 2019-2022: **Postdoc**, University of Zurich
- 2022-present: **Fellow** at Nordita

## Research

- Studying the **era of the first galaxies**
- Understanding the **cosmological impact of dark matter**
- **Cosmological data analysis** using statistics and machine learning

# Teaching Opportunity Overview



## Teaching assistant

- Assisting with Course Preparation
- Conducting Small Group Sessions, such as tutorials, lab sessions
- Grading Assignments and Exams
- Holding Office Hours

## Guest lecturer

- Help prepare certain parts of a Course
- Give Special Lectures on certain topics of a Course

## Teach University-level courses

- Design and Develop University-level Courses
- Supervise PhD students

# Docentship

## Definition

- **An academic position in some European countries**, including Sweden, Finland and Denmark
- **A step towards full professorship** in Sweden

## Significance

- **Advanced knowledge** in a specific field
- Demonstrated **significant research and teaching** experience
- **Independence** to conduct research and teach

# Why become a docent?

- **Path to Professorship:** prerequisite for full professorship
- **Research recognition:** formal recognition of research accomplishment
- **Career Advancement:** establish as an independent researcher
- **Supervision & Teaching:** authority to supervise PhD students, opportunity to teach advanced courses
- **Funding Opportunities:** enhances chances of securing research grants (e.g. Olle Engkvist funding)
- **Expert Recognition:** recognises acquired specialised knowledge within their discipline, act as opponent & committee member at PhD defence seminars
- **Academic Influence:** opportunity to influence direction of research
- **Salary Increment:** most departments provide an increase in salary

# Requirements for a docentship

- Ability to **conduct independent research**
- Experience in **communicating scientific results to non-experts**
- **Teaching skills:**
  - Experience in **teaching at three levels** (bachelor's, master's & PhD)
  - **Teacher's training** programmes
- **Supervision skills:**
  - Completed the **Research Supervision** course given by the Centre for Advancement of University Teaching
  - More than **1 year supervision experience** of PhD student or postdoc

# Teaching Education

- **Pedagogical Principles:** principles of teaching and learning, including theories of education, instructional design, and student-centered approaches
- **Course Design and Development:** courses that align with intended learning outcomes, engage students, and foster deep learning
- **Classroom Management:** managing classroom dynamics, creating an inclusive and respectful learning environment, and promoting student engagement and participation
- **Technology Integration:** use of educational technologies, such as digital tools, learning management systems, multimedia resources, and online learning platforms
- **Assessment and Feedback:** Understanding various assessment methods, designing meaningful assessments, providing constructive feedback, and evaluating student learning outcomes
- **Student Support and Diversity:** recognizing and addressing the diverse needs and backgrounds of students for creating an inclusive learning environment

# Centre for Advancement of University Teaching (CeUL)

- A **network of nodes** lead from an administrative office located in the Department of Education
- Includes **educational developers and researchers** from the Department of Computer and System Sciences, Mathematics and Science Education, Education and Law
- Teachers from the whole university work with CeUL as **educational ambassadors**



# What CeUL does

- **professional development** courses in higher-education pedagogy for university teachers and educational leaders
- organize **competence-raising activities**, such as conferences and workshops
- **research in both general and subject-specific pedagogy** for higher education
- carry out various **pedagogical development projects**
- administering the university's prestigious prize: **The Award for Good Teaching**

# Courses at CeUL

## Introductory

- **Introduction to Teaching**  
short introduction to teaching for **PhD students** looking for confidence and practical tools when starting to teach

## Basic

- **UL1 Teaching and Learning**  
teachers from all disciplinary areas

## Intermediate

- **UL2 Teaching and Learning in the Science Academic Area**  
teachers within the Faculty of Science
- **UL3 Scholarship of Teaching and Learning**  
competence in educational research and carrying out an educational study

## Advanced

- **Open Networked Learning Course**
- **Moving feedback forward**
- **Documenting Your Educational Development Project**

# Example workshops at CeUL

## Upcoming workshops in English

07

SEP

### **Workshop: Encouraging student engagement through interactive lectures**

How can you facilitate and enhance student engagement during lectures? In this workshop for university teachers we focus how to encourage student activity and engagement during lectures in order to support students' learning.

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SEP

### **Workshop: Design teaching for active learning in our active learning classrooms (ALC)**

Want to create a teaching and learning context that activates, challenges and motivates your students? Active Learning Classroom (ALC) is an educational concept that utilizes physical spaces and technologies such as whiteboards and interactive screens to promote student learning. Learn more about how to encourage students to engage in their learning process and how to use the ALC rooms in a way that supports your students learning.

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SEP

### **Workshop: Teaching in English — strategies when teaching in a non-native language**

This workshop has been designed for non-native English speaking university teachers who teach (or plan to teach) their subject matter in English. The aim is to help participants reflect on their own teaching strategies with respect to the teaching language and how these relate to student learning.

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OCT

### **Workshop: Using AI tools to generate and work with text**

Explore the use of Artificial Intelligence (AI) tools for generating and working with text, and discover their benefits and limitations in enhancing teaching and learning practices. This workshop offers perspective on the capabilities and limitations of AI-generated text, and gives you practical skills to use AI tools for text generation and analysis in your teaching practices.

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NOV

### **Workshop: Leveraging AI tools for efficient information search**

AI tools has the potential of transforming the way we search and manage information in academia. This workshop makes you better equipped to make informed decisions about the adoption and integration of AI tools into your research and teaching practices.

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NOV

### **Workshop: Use the right digital tool for your teaching**

Are there any digital tools that improve students' learning or success more than others? Do you need to be an IT expert do use them in your class or can any teacher with an interest in developing their teaching start using digital tools today? In this workshop we will discuss which potential tools you can use in your classroom & how you can incorporate them into your teaching and courses.

# Research Supervision — theory and practice

- Supervisor's **role and responsibilities**
- **Rules and regulations** regarding PhD education at Stockholm University
- Facilitating **PhD students' learning and development**
- **Feedback as a tool** in supervision
- **Ethics, gender and equality** in supervision

# Appointment of docent

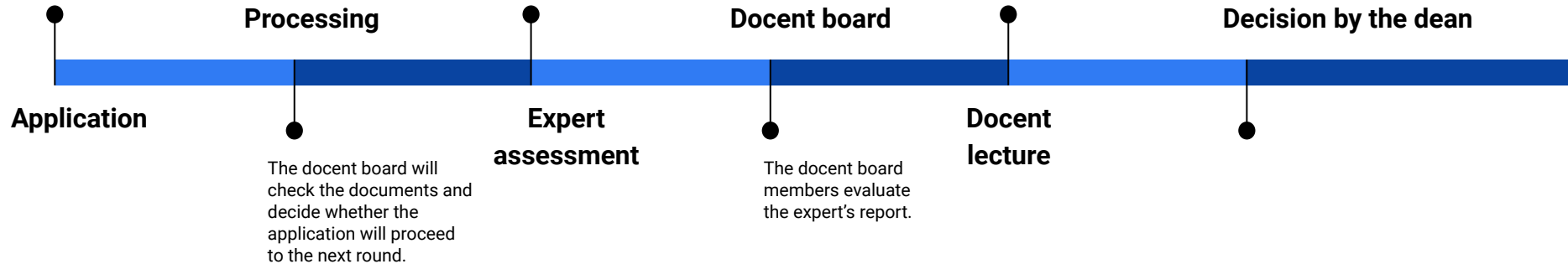
## Required documents:

- Curriculum Vitae
- Publication list
- Pedagogical qualifications
- Report from the Head

## Assessment criteria:

- Theoretical & methodological knowledge
- Ability to think innovatively
- Impact of research
- Presentation skills

- Ability to conduct teaching of highest quality
  - 45 minute-lecture in English/Swedish
  - Lecture in second-cycle course
- A member from the evaluation board approves the lecture**



Good luck!

# Resource links

- Docentship at SU:
  - <https://www.science.su.se/english/rules-regulations/guidelines-for-employment-recruitment-1.67131/guidelines-for-the-appointment-of-docent-1.143251> (full list)
  - <https://www.science.su.se/english/rules-regulations/guidelines-for-employment-recruitment/guidelines-for-the-appointment-of-docent-at-the-faculty-of-science-at-stockholm-university-1.560561> (Faculty of Science)
- Pedagogy courses at CeUL:  
<https://www.su.se/ceul/english/education/courses>
- Pedagogy workshops at CeUL:  
<https://www.su.se/ceul/english/education/workshops>