# Master’s Thesis

18.09.2026

# Possible study structures DIGØK

Example with short master's thesis of 30 ECTS credits and master courses of 90 ECTS credit:

| | | | |
|---|---|---|---|
| 4. semester | Master's thesis | Master's thesis | Master's thesis |
| 3. semester | Elective master course | Elective master course | Elective master course |
| 2. semester | IN5160 - Digital leadership | Elective master course | Elective master course |
| 1. semester | IN4150 - Digital ecosystems | IN4270 - Digital business development | IN4340 - Engaged qualitative research methods |
| | 10 ECTS credits | 10 ECTS credits | 10 ECTS credits |

Examples with long master's thesis of 60 ECTS credits and master courses of 30 ECTS credit:

| | | | |
|---|---|---|---|
| 4. semester | Master's thesis | Master's thesis | Master's thesis |
| 3. semester | Master's thesis | Master's thesis | Master's thesis |
| 2. semester | IN5160 - Digital leadership | Elective master course | Elective master course |
| 1. semester | IN4150 - Digital ecosystems | IN4270 - Digital business development | IN4340 - Engaged qualitative research methods |
| | 10 ECTS credits | 10 ECTS credits | 10 ECTS credits |

Or

| | | | |
|---|---|---|---|
| 4. semester | Master's thesis | Master's thesis | Master's thesis |
| 3. semester | Elective master course | Master's thesis | Master's thesis |
| 2. semester | IN5160 - Digital leadership | Master's thesis | Elective master course |
| 1. semester | IN4150 - Digital ecosystems | IN4270 - Digital business development | IN4340 - Engaged qualitative research methods |
| | 10 ECTS credits | 10 ECTS credits | 10 ECTS credits |

# Long thesis vs Short thesis

| | Long | Short |
|---|---|---|
| Advantages | Deeper engagement with the topic of interest; More time and less stress; | More courses to take |
| Expectations | Higher in terms of data collected, engagement with the literature etc. | High |
| Essay | Yes, should be submitted by 1 of June and approved by your supervisor. | No |
| Length | 100 (+/- 20) pages | 70 (+/- 20) pages |
| Deadline for thesis submission | 15 May, 2028 | 24 May, 2028 (17 weeks in total)<br><br>First working day (Monday) of week 3, with a deadline on the first working day (Monday) of week 21. The final exam and presentation will take place in week 24 or 25. If May 1st or May 17th should fall on a working day, the deadline will be extended accordingly. |

# Deadlines

- 1 October – 15 October: Fill in the interest form

https://nettskjema.no/a/648444#

- By 1 November you will be assigned a supervisor

- 1 December – Submit the study plan agreement

https://www.mn.uio.no/ifi/english/studies/master/first-semester/study-plan-agreement.html

The form to fill if you want to be supervised by someone at DIN (Digital innovation research group) – it will be open from 1 October.

- We recommend that you work in pairs on your master's thesis.

- You do not have to indicate a preferred supervisor.

Mandatory fields are marked with an asterisk *

Your full name (first and last name) *

Your study programme *

- DIGØK
- DIGHEL
- DESIGN

Will you be writing a short or a long master's thesis? *

- Long
- Short
- I have not decided yet

Will you write your master's thesis alone or with someone else? *

- Alone
- With someone else (recommended)
- I have not decided yet

If you are writing with someone else, please indicate with whom.

What topic(s) are you interested in writing your master's thesis on? *

Briefly describe and rank 1-3 topics or project ideas for your thesis. For each please provide (a) title/topic and (b) preferred supervisor(s).

Are you also submitting an expression of interest to other research groups? If yes, which ones?

Please indicate whether you are also completing a master's thesis interest form for any other research group(s), and if so, which ones.

# From your interests to RQ: Gradual «narrowing» process

Interest (If you like the topic – you are more likely to do a good job!)

*What are you broadly interested in or curious about?*

Topic (Could list several at the start)

*What specifically within this area do I want to study?*

"Research nugget" (Problem/gap) (Engage with the literature on the topic)

*What is a particularly interesting thing here? What is still unclear/contested/not yet well understood?*

Research question (How/What are more common in our qualitative tradition)

*What exactly do you want to find out?*

Methodology

(the umbrella for the entire set of decisions dealing with research approach, design, data collection and analysis) – what you learn in your methods course now

*How can you answer the question?*

# Example 1. AI

**Interest:** AI in organizations

**Topic:** The use of generative AI in consulting firms; -> “knowledge work” literature

**Problem/gap:** Generative AI may improve productivity, but we know less about how it changes knowledge sharing and professional expertise;

**Research question:**

- *How does GenAI affect knowledge workers and the nature of their work?* (thesis from 2024) – we found that knowledge sharing is affected indeed by genAI but not in-depth - > future research
- *How does the use of generative AI shape knowledge sharing among knowledge workers?*

**Methodology:** Abductive qualitative approach; Case study of a consulting firm; interviews with consultants and managers; thematic analysis.

# Example 2: Platforms

**Interest:** Multisided platforms & Sustainability;

**Topic:** Second-hand platforms and environmental outcomes; -> “circular economy”, “circular consumption”.

**Problem/gap:** Such platforms can make reuse easier (that we know based on the existing literature), but their actual contribution to circular consumption is unclear (do they really change the culture around consumption?);

**Research question:** *How do digital resale platforms shape consumers’ practices around reuse?*

**Methodology:** Abductive approach; exploratory qualitative study; user interviews + observations/user diaries;

# For your inspiration - examples of master's thesis projects with DIN group

https://www.mn.uio.no/ifi/english/research/groups/din/master-thesis-projects/

| Page title | Published | Supervisor(s) |
|---|---|---|
| Generativ AI - måling av gevinst hos Gjensidige | May 5, 2026 | ▪ Egil Øvrelid |
| Platforms & Ecosystems: Promoting environmental and social sustainability | Aug. 29, 2025 | ▪ Raissa Pershina |
| Platforms & Ecosystems: Business dynamics | Aug. 29, 2025 | ▪ Raissa Pershina |
| AI & Sustainability | Aug. 29, 2025 | ▪ Raissa Pershina |
| AI & Creative industries | Aug. 29, 2025 | ▪ Raissa Pershina |
| Data platforms & Infrastructures | Aug. 29, 2025 | ▪ Raissa Pershina |
| Digital infrastructure design and development | Aug. 27, 2025 | ▪ Miria Grisot |
| Adoption and use of AI | Aug. 27, 2025 | ▪ Miria Grisot |
| Digitalization and Data work | Aug. 27, 2025 | ▪ Miria Grisot |
| Arkitekturtransformasjon innen finans eller helse | Aug. 27, 2025 | ▪ Egil Øvrelid |
| Establishing sector-wide data sharing platforms | Aug. 27, 2025 | ▪ Margunn Aanestad |
| Digital inclusion/exclusion | Aug. 25, 2025 | ▪ Lena Hylving |
| Digital innovation and digital transformation | Oct. 8, 2024 | ▪ Raissa Pershina |
| Tverrgående digitalisering offentlig sektor | Oct. 1, 2024 | ▪ Egil Øvrelid |
| AI implementation | Sep. 27, 2024 | ▪ Lena Hylving |
| Digitalization and performing arts | Oct. 12, 2022 | ▪ Lena Hylving |
| Ethical consequences of digitalization | Oct. 12, 2022 | ▪ Lena Hylving |

# Egil

# Masteroppgaver

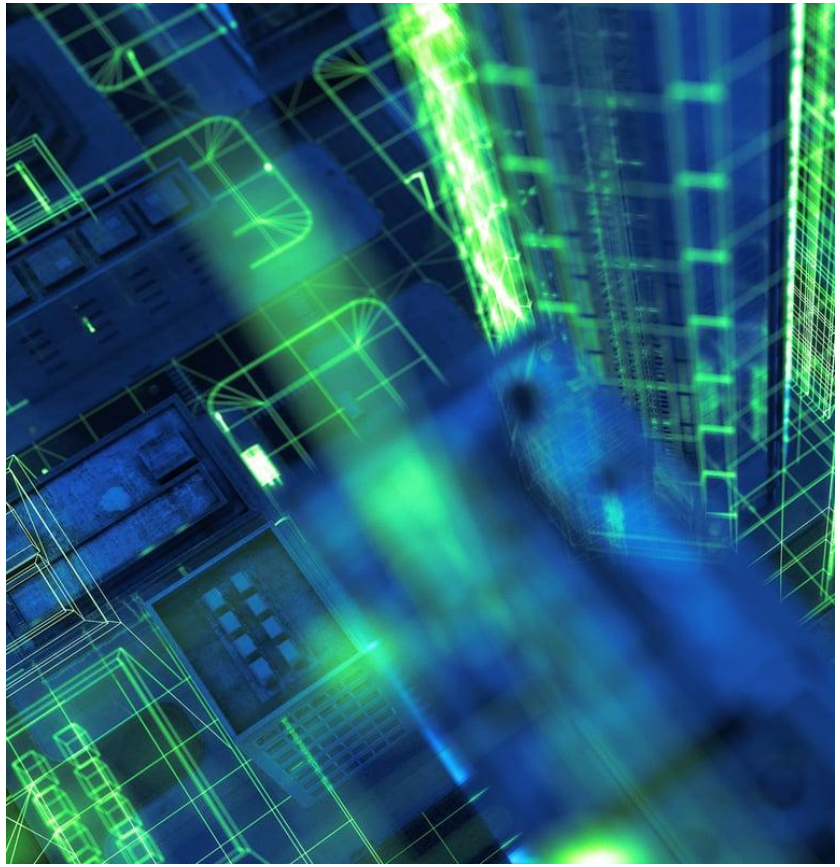
Egil Øvrelid

Associate professor

DIN group

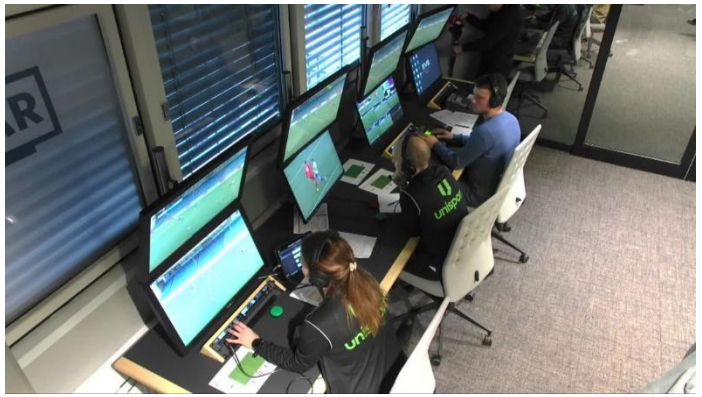
# Transformasjon av IT-Arkitektur

- Fokus 1: **Arkitektur transformasjon:** Prosessen med å transformere fra monolitt til modulær arkitektur, og hvilke sentrale mekanismer som fasiliterer denne transformasjonen. Eksempler er API strategier, digitale tjenester, tettere samarbeid mellom IT og forretning, og agile arbeidsmåter (DevOps)
- Fokus 2: **Prosessinnovasjon**: Velge ut en bestemt verdikjede (feks payment) og vise hvordan den endrer seg når den implementeres på ny plattform.
- Fokus 3: **Governance**: Hvilke styringsmekanismer blir sentrale i å binde sammen arkitektur og forretning/samfunnsoppdrag i heldigitaliserte infrastrukturer.
- Fokus 4: Bruke AI agenter+ LLM og RAG for å identifisere **teknisk gjeld** som barriere mot digital innovasjon og digital transformasjon.



# Hvordan endrer VAR fotball-produktet?

- Ulike stakeholders intervjues
- Mulige vinklinger:
  - VAR som digital infrastruktur (et mer digitalisert fotballprodukt). Digital innovasjon av fotballproduktet
  - Hvilke implikasjoner har dette for ulike stakeholders? Hvilken rolle har IT arkitekturen i å bredde løsningene?
  - Hvilken form for Digitalt Lederskap har NFF/Andre sentrale aktører?



# AI in public (or private) sector

Hvordan «kan» finans- og forsikringsbedrifter måle gevinst av generativ AI i kunnskapsintensive styrings- og beslutningsprosesser?

Bruk av AI i tverrgående digitalisering i offentlig sektor (Digdir)

# Eksempler på Oppgaver jeg har veiledet

- Mehmet Capa "VAR as a Contested Digital Transformation in Football. Balancing Conservative and Progressive Orientations across Three Stages"

- Marcus Brørs "Football's Digital Turn: Unpacking the VAR knowledge regime. A Case Study of VAR in Norwegian Football"

- Sevastiani Hoxhallari & Kacper Maciej Rzadkowski "Process Improvement in Knowledge Intensive Firms. Using AI to Improve Early-Stage Recruitment in a Scandinavian Consulting Firm"

- Madin Cej & Andrea Helmersen "Understanding Knowledge in Architectural Transformation of Large-Scale Digital Infrastructures — A Case Study of a Large Scandinavian Financial Institution"

- Zhiyi Wang "Restructuring of Digital Infrastructure – Key Activities of Architectural Transformation in Large-Scale Incumbents"

# Sundeep

# Data Systems for Environmental Antimicrobial Resistance(AMR) monitoring in India

# Riverine AMR monitoring

- Many drivers influence pollution in rivers shaping spread of AMR
- For monitoring, a diverse data ecosystem needs to be cultivated
  - Microbiological
  - Social-cultural
  - Climatic
  - Other contextual data
- What platforms are relevant for unifying and sharing data?
- What methods are required for building this data ecosystem

  These are potential Masters thesis projects

# Useful links

- Writing your thesis at IFI:

https://www.mn.uio.no/ifi/english/studies/master/thesis/

- Interest form for DIN and DIO research groups:

https://nettskjema.no/a/648444#

Examples of possible projects and directions for your master's thesis:

- https://www.mn.uio.no/ifi/english/research/groups/din/master-thesis-projects/

# Miria

Sept 2026

# Miria Grisot – master thesis topics

## 1. Digitalization and Data work

- How do organizations become data driven?
- Which novel competences and roles emerge in digitalization processes?
- Which forms of data work emerge in organizations?

## 2. Adoption and use of AI

- What are the concerns, strategies, challenges to AI adoption?
- How is AI introduced into organizations?
- What are the consequences of using AI in organizations?

## 3. Digital Infrastructures design and development

- Strategies for the design and development of digital infrastructures.
- User participation in the design of large-scale digital infrastructures.
- How to deal with the installed base in digital infrastructures.
- The relation between technical and organizational development.
- Digital infrastructure sociotechnical development related to AI

I am interested in supervising theses in the healthcare domain (I am currently conducting research in healthcare), but I am also open to other cases.

I prefer to supervise long theses.

MY EMPIRICAL CASES:

Oslo Kommune
Continuous design, implementation and scaling of a digital infrastructure for patient data

Hospitals
Implementation and use of AI

# Examples of previous theses

- AI Adoption Without a Strategy: From individual experimentation to Organizational Capability A Case Study from a Scandinavian Retailer (Marius Sundem Femsteinevik)

- Shaping Influences in Preparations for Digital Transformation. A Case Study of a EPJ Implementation in a Norwegian Hospital Undergoing Regional EPJ Consolidation (Nore Stene and Daniel Teckle)
- Interoperability in Evolving Information Infrastructure: Inter-organizational Alignment in National Public Health Service. A case study of data-sharing in Norwegian healthcare sector (Amir Hussain)

- Innovating from the Middle. A Case Study of How Middle Managers Shape Digital Innovation in a Complex Healthcare Organization (Hedda Marie Hoff)

# Platform dependencies, digital sovereignty, and open source in the public sector

- In collaboration with Alexander Kempton (IS group) leader of the Platform Bind research project.

- What critical dependencies exists and emerge with the use of Big Tech digital platforms in the public sector?
- What are the consequences of public sector organizations dependency on Big Tech digital platforms?
- What alternatives exist to the Big Tech platforms, and how can these alternatives become implemented and used in organizations?

# Margunn