

DT 8108 IT Topics Spring 2017

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Room 057*IT bygget

Based on slides from Eric Monteiro

Aims

- Overview of the field through **the lens of IDI**
- Scientific **writing, review, and presentation**
- Research **methods** in CS/SE/IS
- **Literature** reviews
- Organize **conference**
- **Community** building

Motivation

- Why become a PhD?
- What does it entail?
- Short vs long term
- individual vs collective

Challenge

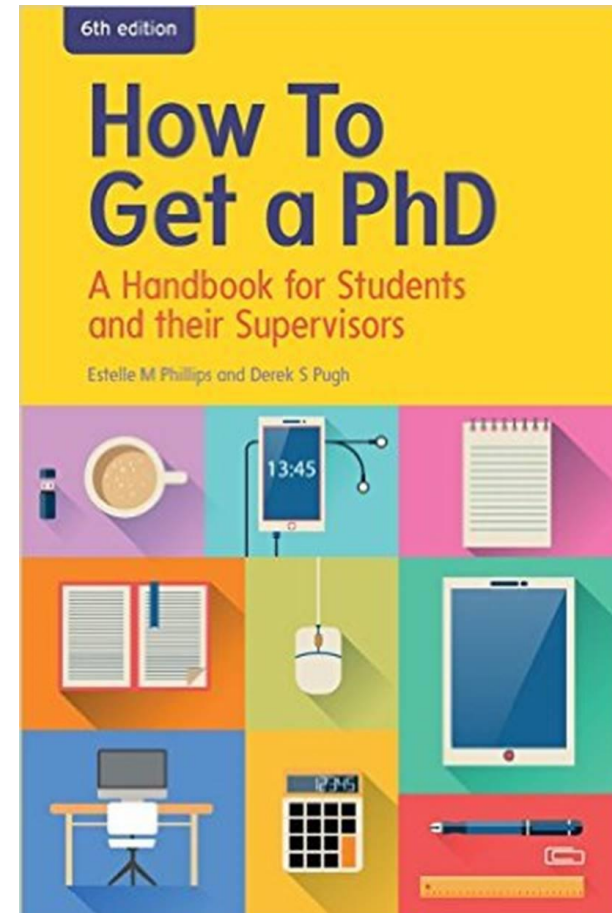
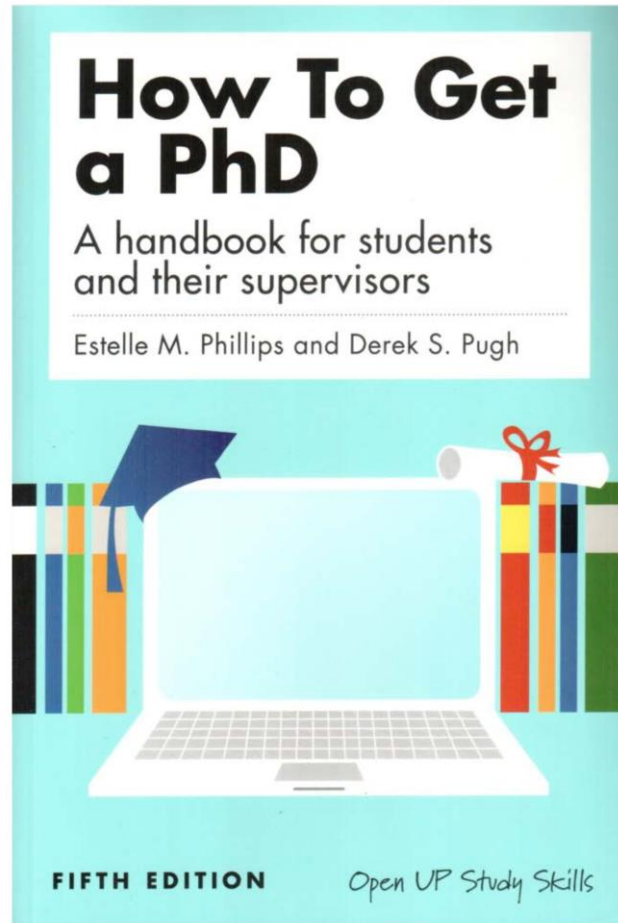
- You – and IDI, the field – heterogeneous
- Varied background/experience (e.g. methods)
- **Not** a supplement to thesis supervision!
- Some useful links, just in case:
 - <http://www.phdontrack.net/>
 - <http://www.ntnu.no/viko/english>

Expectations?

- Yours?
- Supervisor(s)?
- Mine?
 - Attendance (6 of 8, excl. course on qualitative methods)
 - Engagement, assignments
 - Some flexibility to modify as we go along

Book (ask Ellen Solberg!)

<https://www.amazon.com/How-Get-Phd-Handbook-Supervisors/dp/0335264123>



National course on qualitative methods

- Session in Trd 15-16 Feb.
 - Davide Nicolini + Eric Monteiro
- Data collection with three themes (roughly half day each):
 - Interviews
 - Observations
 - scaling-up method
- Not compulsory for IT topics students!
- Contact Bjørn Erik Mørk (bemork@if.uio.no) if you wish to participate!



Advanced Qualitative Methods Seminar Series 2017

Organisers: Davide Nicolini, Bjørn Erik Mørk and Bendik Bygstad

AIMS

The Information Systems Group of Dept. of Informatics at University of Oslo has a long track record of studying large information infrastructures. We invite to an advanced series of workshops on qualitative methods, which has two aims:

- To enable PhD students to conduct high-quality research
- To provide an arena for faculty for sharpening the methodological approaches and tools for studying large socio-technical structures by qualitative methods

The seminars combine the two aims by offering a step-wise program of methods and techniques, and dedicated sessions for methodology development, drawing on staff and PhDs.

Confirmed keynote speakers:



Professor NATALIA LEVINA
Stern School of Business,
New York University



Professor KALLE LYYTINEN
Weatherhead School of Management,
Case Western Reserve University



Professor DAVIDE NICOLINI
Prof. & Co Director of IKON, WBS
and Adjunct Prof. University of Oslo

SEMINAR OUTLINE

| Location and dates | Topics | Responsible |
|------------------------------|--------------------------------------|--|
| Oslo 17-18 January | Introduction to qualitative research | Bendik Bygstad and Davide Nicolini |
| Trondheim, 15-16 February | Collecting data | Davide Nicolini, Bjørn Erik Mørk and Eric Monteiro |
| Oslo, 14-15 March | Data analysis | Natalia Levina |
| Oslo April | Theorising and publishing | Kalle Lyytinen, Davide Nicolini and |
| Oslo TBD | Action research | Kristin Braa |

For a more detailed overview of each session and the curriculum, please visit: mn.uio.no/qualitative-methods

The conference

- Present **your** papers
- Invite **outsiders** (= supervisors, fellow students, interested ones, ...)
- You run the **whole** process
 - Web announcement/ CFP
 - Set up system to submit, reviews (Easy-chair?)
 - Recruit reviewers
- Wed, **31st May 2017**

| | Date | Topic | Assignments |
|------------|-------------------------|--|--|
| 0 w. 5 | 1 Feb Wednesday | Introduction (E P / J K) <ul style="list-style-type: none"> Motivation: How to get a PhD (from previous PhD-student) Presentations by all | <ul style="list-style-type: none"> Present yourself: 2 slides Start reading "How To Get a PhD" |
| 1 w. 6 | 8 Feb Wednesday | Research methods Experiment & simulation (1300) (Magnus Jahre) Paper09.pdf <ul style="list-style-type: none"> Surveys (John Krogstie 14:00) INFSOF4998 Case study (Eric Monteiro 15:00) Paper98 | <ul style="list-style-type: none"> How to develop a RQ? Draft your own RQ! Questions to method guests |
| 2 w. 7 | 15-16 Feb | For those focusing on qualitative methods, there is an opportunity to join (parts of) the workshop on data collection (not mandatory) – To sign up: Contact Bjørn Erik Mørk (UiO) <ul style="list-style-type: none"> - interviews - observations - scaling-up method | |
| 3 w.9 | 1 Mar Wednesday | Use of slides, tables, figures in scientific presentations (Ole Andreas Alsos 13:00) Research methods II <ul style="list-style-type: none"> Design science (Dag Svanæs 15:00) chi04.pdf, Nordichi.pdf | <ul style="list-style-type: none"> Questions to guests Set up, test web conf. system: Invite reviewers/supervisors. Write the Call For Papers (page limit etc). |
| 4 w. 12 | 22 Mar Wednesday | Panel: "What is a good PhD?" <ul style="list-style-type: none"> Lasse Natvig (PDF), Monica Divitini (PDF) 12:30 Systematic reviews (Torgeir Dingsøy 15:00) EmpiricalStudiesOfAgileSoftwareDevelopment.pdf | <ul style="list-style-type: none"> Draft method section. Present. Suggest key-note speakers for CSGSC What are the important qualities of a good literature review? Q&A |
| 5 w. 14 | 5 Apr Wednesday | Scientific writing (full day!) 09:30 - 14:30 To be confirmed <ul style="list-style-type: none"> Nancy Lea Eik-Nes (PDF) | Submit draft paper to Nancy |
| 6 w. 16 | 19 Apr Wednesday | CSGSC planning | Preparations for PhD-conference |
| 7 w. 18 | 3 May Wednesday | Summary / Recap | Preparations for PhD-conference |
| 8 w. 20 | 19 May Friday | Proceedings etc. | Final preparations for PhD-conference |

Assignments, groups

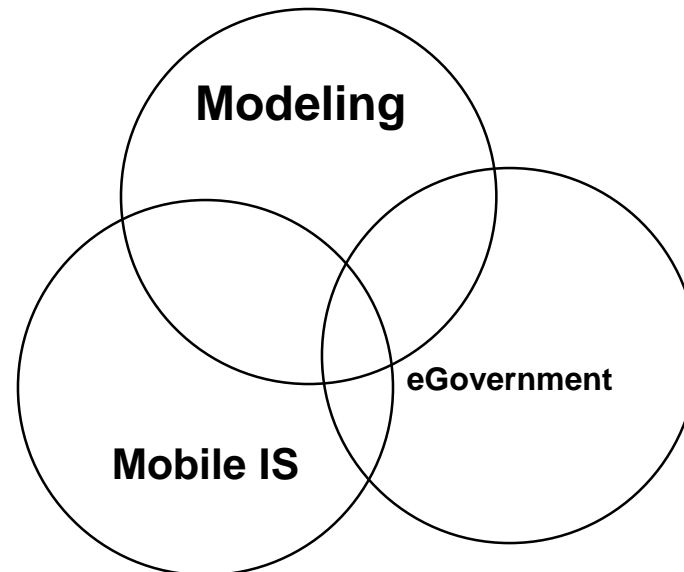
- Break out **3** groups, **heterogeneous**
- Discuss your own (RQ, lit rev, method) your own with the group
- Upload assignments to Wiki (ca 2 ppt slides)



About us

John Krogstie

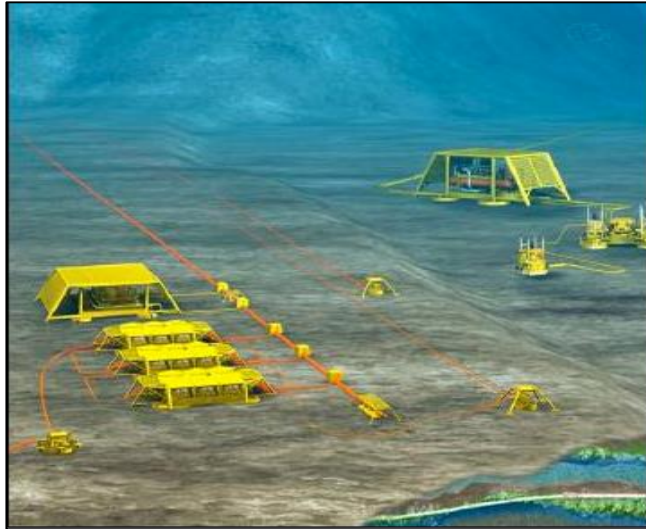
- Master and PhD in Information Systems at IDI, NTNU (1991, 1995)
- Employed 9 years in Andersen Consulting (Accenture)
- 2000-2005 senior researcher in SINTEF ICT (Oslo)
- Professor at IDI, NTNU since 1.august 2005 (earlier part-time position for 7.5 years)
- Deputy Department Chair at IDI, lead IS and SE-group (ISSE) at IDI and the IE faculty lighthouse of Open and Autonomous Digital Ecosystems (OADE).
- Coordinate ICT as enabling technology in NTNU's program on sustainability
- Have supervised 5 Phd students to completion as main supervisor at IDI (and 7 as co-supervisor). Supervised approximately 60 Master theses to completion.
- Acted as opponent/evaluator in Sweden, Finland, Denmark, Austria, Estonia, France, Spain, and Italy.



About me / work

- Now: Postdoctoral fellow @IDI Gløs (Jan 2016 – Jan 2019 + 6 mth Oulu)
- Research areas:
 - Information Systems
 - Science & Technology Studies
 - Computer Supported Cooperative Work
- Teaching:
 - IT8108 IT topics (in collaboration with John Krogstie; Rune Sætre)
 - IT3010 – Research-based innovation in IT (Assignment coordinator; with Babak Farshchican)
 - TDT 4254 – Digital service innovation (Assignment coordinator; with Eric Monteiro)

Now: Digitalization



Scalable Data Access in the Oil
and Gas Industry
Sirius SFI



Long-term environmental
monitoring (LTER)
With **Oulu University / Fin**



Delivering Digital Drugs (D3)
with **LSE / UK**

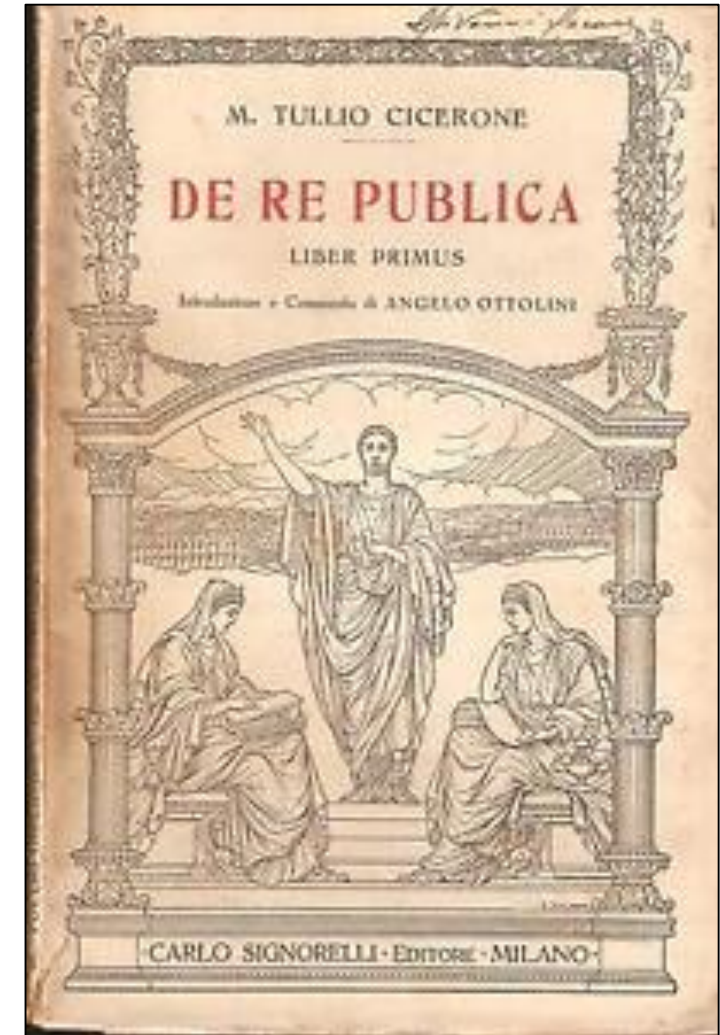
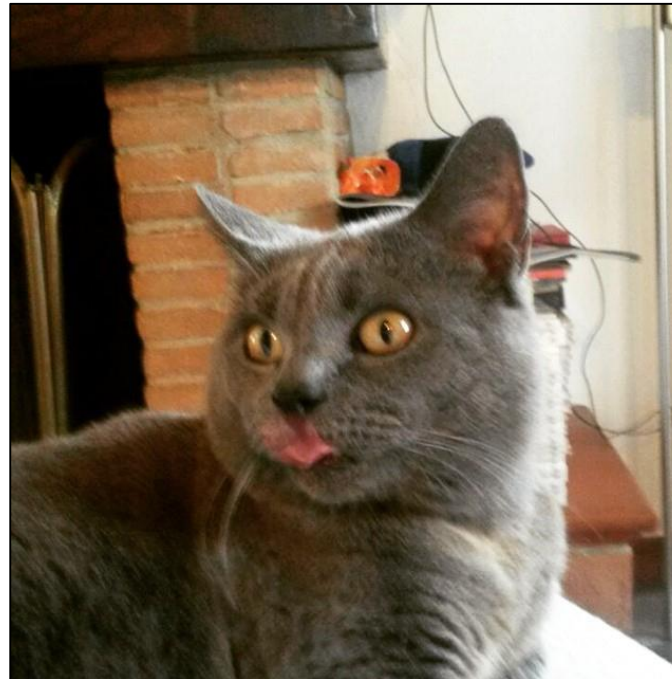
About me / not work

- Born in: Bologna (Ita)
- Grew up in: Spilamberto (Modena, Ita)
- Family & cats: in Italy
- BSc (2008) and MSc (2010), Computer Engineering – Università degli Studi di Modena e Reggio Emilia (Ita)
 - Master thesis @IDI (2010)



About me / not work

- Hobbies:
 - Latin literature & Roman history
 - Reading
 - Pilates
 - Biking
 - Football (mostly from the sofa)
 - Cats! (in Italy)



Free time / Holidays

