Joint Master's Degree in Program Development - Evaluation
The Joint Master Programme

- The programme is shared between UiB and HVL
- Projects are supervised by faculty from either UiB or HVL
- Courses are given by either UiB or HVL
Research groups at HVL

- Model based software development
- Computer graphics
- Grid computing
- Health Informatics
- Machine learning
- Communication and security

...plus

- External projects
Programme structure

- Mandatory courses
  - INF234 Algorithms
  - INF222 Programming Languages
  - DAT250
    Advanced Software Technologies
  - DAT251
    Modern System Development Methods
Available courses

- Elective courses @ HVL
  - Fall term:
    - DAT351 Grid and cloud computing
  - Spring term:
    - DAT253 Advanced computer graphics
    - DAT254 Health informatics
    - DAT353 Model based software engineering
Programme structure

■ Elective courses @ UiB
  ■ Fall term:
    ■ INF 214 Concurrent programming
    ■ INF 220 Program specification
    ■ INF 226 Software security
    ■ INF 329 Selected Topics in Programming Theory (irregular)
Programme structure

- Elective courses @ UiB
  - Spring term:
    - INF 223 Category Theory
    - INF 227 Introduction to logic
  - Irregular:
    - INF 210 Modelling of Computing
    - INF 225 Introduction to Program Translation
    - INF 328 Elements of Programming Languages
Programme structure

- Recommended combinations
  - INFOxxx + DAT253 = computer graphics
  - ?? + DAT254 = health informatics
  - ?? + INF283 = machine learning
  - DAT351 + ?? = grid and cloud comp.
  - ?? + DAT354 = MDSE
  - INF226 + INF245 = security
  - INFO262 + ?? = interaction design
  - INF261 + ?? = engineering computing
## Thesis - 60 ETCS

<table>
<thead>
<tr>
<th>Year</th>
<th>Course 1</th>
<th>Course 2</th>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018 Fall</td>
<td>DAT250</td>
<td>INF234</td>
<td>Electives</td>
</tr>
<tr>
<td>2019 Spring</td>
<td>DAT251</td>
<td>INF222</td>
<td>Electives</td>
</tr>
<tr>
<td>2019 Fall</td>
<td>Project</td>
<td>Project</td>
<td>Project</td>
</tr>
<tr>
<td>2020 Spring</td>
<td>Project</td>
<td>Project</td>
<td>Project</td>
</tr>
</tbody>
</table>
## Thesis - 30 ETCS?

<table>
<thead>
<tr>
<th>Year</th>
<th>Course 1</th>
<th>Course 2</th>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018 Fall</td>
<td>MOD250</td>
<td>INF234</td>
<td>Electives</td>
</tr>
<tr>
<td>2019 Spring</td>
<td>MOD251</td>
<td>INF222</td>
<td>Electives</td>
</tr>
<tr>
<td>2019 Fall</td>
<td>Electives</td>
<td>Electives</td>
<td>Electives</td>
</tr>
<tr>
<td>2020 Spring</td>
<td>Project</td>
<td>Project</td>
<td>Project</td>
</tr>
</tbody>
</table>

- Shorter, more intensive project
- Possible exchange stay
- More courses
Research methodology and writing

- Formally part of DAT300 (master project)
- In practice, part of DAT251
  - Writing research proposal in 4 iterations
  - Background, research questions, methodology ++
  - Based on dialogue with supervisor
  - Form basis for the thesis

- Can it be improved?
Defining a master project

- There is no formal definition of learning outcomes of the master project!

- Can we define common elements for master projects on our programme?

- How do we evaluate a thesis?
  - Internal censors
  - External censors
Welcoming new students

- Intro meeting at UiB on Wednesday before courses start.
- Mereting at HVL Friday before courses start
  - Advice on courses + projects
- Meeting with supervisors end of September
  - Too many projects/supervisors?
That’s all folks!