# Martin Dybdal
Curriculum Vitæ

## EDUCATION

| 2009- | **MSc. Stud. in Computer Science** | *University of Copenhagen* |
|---|---|---|
| Average grade | 11.5 (out of 12) | |

| 2006-2009 | **BSc. in Computer Science** | *University of Copenhagen* |
|---|---|---|
| Average grade | 10.1 (out of 12) | |
| Bachelor thesis | "Controlling embedded devices using Functional Reactive Programming" | |
| Supervisor: | Ken Friis Larsen | |

## TEACHING EXPERIENCE

| Spring 2011 | **Teaching Assistant in Advanced Algorithms** | *University of Copenhagen* |
|---|---|---|
| | Classroom-teaching and correction of exercises. | |

| Spring 2011 | **Teaching Assistant in Operating Systems and Multiprogramming** | *Uni. Cph.* |
|---|---|---|
| | Classroom-teaching and correction of exercises (including exams). | |

| Autumn 2010 | **Teaching Assistant in Computer Architecture** | *University of Copenhagen* |
|---|---|---|
| | Classroom-teaching and correction of exercises. | |

| Spring 2010 | **Teaching Assistant in Algorithms and Datastructures** | *University of Copenhagen* |
|---|---|---|
| | Classroom-teaching, examination at trial exams and correction of exercises. | |

| Autumn 2009 | **Teaching assistant in Functional Programming** | *University of Copenhagen* |
|---|---|---|
| Autumn 2008 | **Teaching assistant in Functional Programming** | *University of Copenhagen* |
| | Classroom-teaching and correction of exercises (including exams). | |

## VOLUNTEER POSITIONS

| 2009- | **Chairman** | *Dikutal* |
|---|---|---|
| | Dikutal is a student-driven webportal for Computer Science students. As chairman I have handled contact with our sponsoring companies and the department administration, organised our weekly meetings, and been responsible for the employed students editors and developers. | |

| 2008- | **Networkadministrator** | *Industri-Kollegiet* |
|---|---|---|
| | I have been handling the network at my dormitory for the last three years. We have a couple of servers and around 100 users. During the period we have changed most of our hardware and installed the new system from scratch. This was due to new legislation in Denmark, that could not be fulfilled by the old system. | |

| 2006-2009 | **Board member** | *Allerød Synthesizer Workshop* |
|---|---|---|
| | Allerød Synthesizer Workshop was an alternative music school, focusing on electronic music processing. I was a student there for ten years and was board member in the last three of the period. | |

## LANGUAGE SKILLS

I read and write Danish and English fluently, and I read Swedish and Norwegian to some extent.

GRADES

I have decided not to include the official Grade-listing from the university, as it is only half-way translated to English.

**Bachelor of Computer Science (180 ECTS)**

| Course name | Grade | ECTS Grade | Credit | Date |
|---|---|---|---|---|
| Mathematics and Computation | Passed | | 7.5 | 11/2006 |
| Functional programming | Passed | | 7.5 | 11/2006 |
| Computer Architecture | 12 | A | 7.5 | 01/2007 |
| Object-oriented programming and design | 12 | A | 7.5 | 01/2007 |
| Operating Systems and Concurrent Programming | 12 | A | 7.5 | 03/2007 |
| Algorithms and Data Structures | 7 | C | 7.5 | 04/2007 |
| Computer science, first year project | 10 | B | 7.5 | 06/2007 |
| Distribution and Databases | 12 | A | 7.5 | 06/2007 |
| Computer networking | 10 | B | 7.5 | 10/2007 |
| Linear Algebra | 12 | A | 7.5 | 10/2007 |
| Advanced algorithms | 12 | A | 7.5 | 01/2008 |
| Introduction to Compilers | 12 | A | 7.5 | 02/2008 |
| Programming languages | 12 | A | 7.5 | 04/2008 |
| Modelling and simulation (Scientific Computing) | 10 | B | 7.5 | 04/2008 |
| The Science Theory of Computer Science | Passed | | 7.5 | 06/2008 |
| Formal Semantics of Programming Languages | 7 | C | 7.5 | 06/2008 |
| Logic in Computer Science | 10 | B | 7.5 | 10/2008 |
| Biology A1: Cell biology - from organism to molecule | 10 | B | 7.5 | 10/2008 |
| Mathematics Method (MatM) | 10 | B | 7.5 | 01/2009 |
| Statistics for biochemistry (StatBK) | 7 | C | 7.5 | 01/2009 |
| Advanced Compiler Design | 7 | C | 7.5 | 03/2009 |
| B.Sc. project in Computer Science | 12 | A | 15 | 06/2009 |
| Biology A2: Molecular biology and genetics | 7 | C | 7.5 | 08/2009 |

**Master of Computer Science (80/120 ECTS)**

| Course name | Grade | ECTS Grade | Credit | Date |
|---|---|---|---|---|
| Advanced Programming | Passed | | 7.5 | 06/2009 |
| Types At Work (Summer course, transferred from DTU) | 10 | B | 5 | 09/2009 |
| Robot experimentarium | Passed | | 7.5 | 11/2009 |
| Principles of computer system design | 12 | A | 7.5 | 01/2010 |
| Extreme multiprogramming | 12 | A | 7.5 | 01/2010 |
| Statistical methods for machine learning | 12 | A | 7.5 | 04/2010 |
| POETS Summer Of Code | 12 | A | 7.5 | 09/2010 |
| Project: "Fitting on All-atom protein model to a $C_\alpha$-trace" | 12 | A | 7.5 | 09/2010 |
| Computational Geometry | Passed | | 7.5 | 01/2011 |
| Computability and Complexity | 10 | B | 7.5 | 01/2011 |
| Project: "OpenCL back-end for Accelerate" | 12 | A | 7.5 | 05/2011 |

REFERENCES

| Reference | Relationship |
| --- | --- |
| **Ken Friis Larsen**<br>*Associate Professor*<br><br>Department of Computer Science<br>University of Copenhagen<br>Universitetsparken 1<br>Copenhagen OE, DK-2100<br>Email: *kflarsen@diku.dk* | **Current Supervisor**. Ken Friis Larsen supervised my bachelor's thesis on functional reactive programming for embedded devices. He was also supervisor on a master-level project i did in 2011, on OpenCL and GPGPU programming from within Haskell. He will most likely be my master-thesis supervisor as well. |
| **Pawel Winter**<br>*Associate Professor*<br><br>Department of Computer Science<br>University of Copenhagen<br>Universitetsparken 1<br>Copenhagen OE, DK-2100<br>Email: *pawel@diku.dk* | **Former supervisor**. Pawel Winter managed and lectured the departments courses on both *introductory* and *advanced algorithms* in 2010 and 2011, where I was a teaching assistant. In 2010 he supervised a master-level on protein structure prediction. |
| **Robert Glück**<br>*Associate Professor*<br><br>Department of Computer Science<br>University of Copenhagen<br>Universitetsparken 1<br>Copenhagen OE, DK-2100<br>Email: *glueck@diku.dk* | Robert Glück managed and lectured the departments course on *operating systems and multiprogramming* in 2011, where I was a teaching assistant. |
| **Jakob Grue Simonsen**<br>*Associate Professor*<br><br>Department of Computer Science<br>University of Copenhagen<br>Njalsgade 128, 24-5-46<br>Copenhagen S, DK-2300<br>Email: *simonsen@diku.dk* | Jakob Grue Simonsen managed and lectured the departments course on *functional programming* both in 2008 and 2009, where I was a teaching assistant. |