

## Teaching CV

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## Formal training

Lecturer training program, University of Southern Denmark (May 2019)

## Experience of supervision and teaching courses

### Ph.D. theses (as co-supervisor)

[1] (ongoing) Larisa Safina, Syddansk Universitet, expected conclusion Oct/2019.

### Master theses

[7] Mats Siewertsen, *Formally Verified Parallel SAT Solving*, Syddansk Universitet, Jun/2017.

[6] Lisbeth van Brakel, *Foundational Aspects of Choreographic Programming*, Syddansk Universitet, Jun/2017.

[5] Bjarne Magnussen, *A Formal Programming Model for Bitcoin Transactions*, Syddansk Universitet, Jun/2016.

[4] Michael Franz and Artavazd Hakhverdyan, *Active Integrity Constraints for Database Consistency*, Syddansk Universitet, Jun/2015.

[3] Rita Henriques, *Integration of Ontologies with Programs based on Rules*, Faculty of Sciences of the University of Lisbon, Nov/2013.

[2] João Pedro Ribeiro, *Suporte Técnico Billing*, Faculty of Sciences of the University of Lisbon, Feb/2010.

[1] Mafalda Sebastião, *Workflows de Produção na Indústria Financeira*, Faculty of Sciences of the University of Lisbon, Oct/2008.

### Undergraduate students

[5] Johan Clausen, Thomas Buhl, Rabun Bozo, Svend Kristensen and Rasmus Lehd, Project course, Syddansk Universitet, Spring 2018.

[4] Emil Stubager, Frederik Petersen, Lukas Nielsen, Mikkel de la Cour and Magnus Jørgensen, Project course, Syddansk Universitet, Spring 2018.

[3] Lisbeth van Brakel, individual study activity, Syddansk Universitet, Fall 2016.

[2] Marta Ludovico, undergraduate research project, University of Lisbon, 2013/14.

[1] David Henriques, Project course, IST, Spring 2007.

## Teaching

### Syddansk Universitet (2014-)

*Spring 2019*

DM846 Logic for Computer Science

*Fall 2018*

DM550 Introduction to Programming

*Spring 2017*

DM846 Logic for Computer Science

*Fall 2016*

DM552 Programming Languages

*Fall 2015*

DM552 Programming Languages

*Spring 2015*

DM846 Logic for Computer Science

*Fall 2014*

DM552 Programming Languages

### Nautical School Infante Dom Henrique (2009-2013)

*Fall 2013*

Linear Algebra

Mathematical Analysis II

*Spring 2013*

Probability and Statistics

Mathematical Analysis I

Mathematical Analysis II  
*Fall 2012*  
Linear Algebra  
Numerical Methods  
*Spring 2012*  
Probability and Statistics  
Linear Algebra  
Mathematical Analysis II  
*Fall 2011*  
Linear Algebra  
Numerical Methods  
Mathematical Analysis I  
*Spring 2011*  
Computational Methods  
Probability and Statistics  
*Fall 2010*  
Linear Algebra  
Mathematical Analysis I  
*Spring 2010*  
Linear Algebra  
Mathematical Analysis II  
*Fall 2009*  
Mathematical Analysis I  
**Faculty of Sciences, University of Lisbon (2007-2009)**  
*Spring 2009*  
Programming Laboratory  
Algorithms and Data Structures  
Theory of Computation  
*Fall 2008*  
Introduction to Programming  
*Spring 2008*  
Programming Laboratory  
Algorithms and Data Structures  
*Fall 2007*  
Introduction to Programming  
Trustworthy Software  
**Instituto Superior Técnico (2004-2007)**  
*Fall 2006*  
Computation and Programming  
Elements of Programming  
*Spring 2006*  
Logic Programming  
*Fall 2005*  
Computation and Programming  
*Spring 2005*  
Logic Programming  
*Fall 2004*  
Elements of Programming  
**Katholieke Universiteit Nijmegen (2003-2004)**  
*Spring 2004*  
Optional CS module  
*Fall 2003*  
Complexity Theory  
**Instituto Superior Técnico (1999-2001)**  
*Spring 2001*  
Theory of Computation  
Algebraic Elements of Programming I  
*Fall 2000*  
Programming  
Algebraic Elements of Programming II  
*Spring 2000*  
Theory of Computation  
*Fall 1999*  
Programming

## Materials

### Course notes

- [3] L. Cruz-Filipe and P. Engrácia. *Apontamentos de Álgebra Linear*. Nautical School Infante Dom Henrique, 2nd ed., 2011. [255 pages]
- [2] L. Cruz-Filipe and P. Engrácia. *Apontamentos de Análise Matemática I*. Nautical School Infante Dom Henrique, 2010. [299 pages]
- [1] L. Cruz-Filipe. *Programação em Lógica*. Instituto Superior Técnico, 2006. [84 pages]

### Weekly notes and exercises

- [8] *Introduction to Programming*, weekly exercises. [20 pages]
- [7] *Logic for Computer Science*, weekly notes, 2015. [40 pages]
- [6] *Logic Programming*, weekly notes, 2014. [27 pages]
- [5] *Exercícios de Álgebra Linear*, weekly exercises for the Linear Algebra course, 2013. [12 pages]
- [4] *Exercícios de Probabilidades e Estatística*, weekly exercises for the Probabilities and Statistics course, 2013. [18 pages]
- [3] *Exercícios de Métodos Numéricos*, exercise list for the Numerical Methods course, 2011. [8 pages]
- [2] *Integrais de linha e integrais de superfície*, exercises in line and surface integrals, 2010. [5 pages]
- [1] *Colectânea de exercícios de Introdução à Programação*, exercise list for the Programming course, 2008. [12 pages]

### Dissemination of knowledge books (editor)

- [4] J.P. Boavida, R. Carpentier, L. Cruz-Filipe, E. Grifo, P. Gonçalves, D. Henriques and A.R. Pires (editors). *Números, cirurgias e nós de gravata: 10 anos de Seminário Diagonal no IST*. Lisbon, 2012.
- [3] A. Cannas da Silva, L. Cruz-Filipe, N. Freitas, J.D. Silva and A. Vasconcelos (editors). *Seminário Diagonal - Proceedings IST, III*. Lisbon, 2007.
- [2] A. Cannas da Silva, L. Cruz-Filipe, R. Gonçalves, J. Pimentel Nunes, A.R. Pires, T. Reis, P.M. Resende and J.D. Silva (editors). *Seminário Diagonal - Proceedings IST, II*. Lisbon, 2005.
- [1] J.P. Boavida, A. Cannas da Silva, L. Cruz-Filipe, J. Fachada and P. Resende (editors). *Seminário Diagonal - Proceedings IST, 2000-01*. Lisbon, 2001.

### Administrative tasks related to education

- 2009-2013:** coordinator of the team responsible for restructuring the Mathematics curricula (Nautical School Infante D. Henrique).
- 2009-2013:** member of the exam committee for special admissions (Nautical School Infante D. Henrique).
- 2008-2009:** responsible for restructuring the course on Introduction to Programming (Faculty of Sciences of the University of Lisbon).
- 2005-2007:** faculty responsible for *Seminário Diagonal* (Mathematics student seminar, Instituto Superior Técnico).