

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).