

Luciano Porretta

Curriculum Vitae

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Current Position

2010–now

Free University of Brussels, Ph.D. in Computer Science.

Promoter: Prof. Bernard Fortz

Research Title: Models and methods for genetic association studies

Goal: Research will focus on the mathematics problems of haplotyping, in order to identify the structural properties and efficient solution methods.

Education

March 2010

University of L'Aquila, M.S. in Computer Science.

Supervisor: Prof. Claudio Arbib

Thesis Title: Haplotyping Problem Under Uncertain Data.

Collaborations: Université Libre de Bruxelles, under supervision of the prof. Martine Labbé and Dott. Daniele Catanzaro

Goal: Design, resolution and analysis of Haplotyping Problem model with uncertainty on the input genotype dataset.

Score: 110/110 cum laude.

April 2007

University of L'Aquila, B.S. in Computer Science.

Supervisor: Prof. Claudio Arbib

Thesis Title: Optimization of Handling in the Production of Semiconductor Devices.

Goal: Design, resolution and analysis of a multi commodity model for the solution the problem of management production material.

Score: 103/110.

Publications

Journal articles

D. Catanzaro, M. Labbé, and **L. Porretta**, 2011. *A Class Representative Model for Pure Parsimony Haplotyping under Uncertain Data.* *PLoS One* 6(3): e17937.

International School and Conferences

February 2016

LSD&LAW, *London Stringology Days & London Algorithmic Workshop*, King's College, London, February 4-5, 2016.

January 2016

ORBEL30, *30th Annual Conference of the Belgian Operations Research Society*, UCL-CORE, Belgium, January 28-29, 2016.

July 2015

ISMP2015, *22th International Symposium on Mathematical Programming*, Pittsburgh, PA, July 12-17, 2015.

- February 2015 **ORBEL29**, *29th Annual Conference of the Belgian Operations Research Society*, Antwerp, Belgium, February 5-6, 2015.
- April 2015 **BMPW21**, *21th Belgian Mathematical Programming Workshop*, La Roche en Ardenne, Belgium, April 23-24, 2015.
- September 2014 **GOR2014**, *International Conference of the German Operations Research Society*, Aachen Germany, September 2-5, 2014.
- April 2014 **BMPW20**, *20th Belgian Mathematical Programming Workshop*, La Roche en Ardenne, Belgium, April 24-25, 2014.
- July 2013 **EURO26**, *26th European Conference on Operational Research*, Rome, Italy, July 1-4, 2013.
- January 2013 **ORBEL27**, *27th Annual Conference of the Belgian Operations Research Society*, Kortrijk, Belgium, February 7-8, 2013.
- March 2013 **BMPW19**, *19th Belgian Mathematical Programming Workshop*, La Roche en Ardenne, Belgium, March 6-8, 2012.
- September 2012 **CBMM2012**, *The 2012 Mini EURO Conference on Computational Biology, Bioinformatics and Medicine*, Nottingham, England, September 13-15, 2012.
- March 2012 **BMPW18**, *18th Belgian Mathematical Programming Workshop*, La Roche en Ardenne, Belgium, March 2-3, 2012.
- February 2012 **ORBEL26**, *26th Annual Conference of the Belgian Operations Research Society*, Bruxelles, Belgium, March 1-2, 2012.
- January 2011 **NETOPT2011**, *Winter School on Network Optimization*, Estoril, Portugal, January 17-21st, 2011.
- April 2011 **BMPW17**, *17th Belgian Mathematical Programming Workshop*, La Roche en Ardenne, Belgium, April 7-8th, 2011.
- June 2011 **JPOC7**, *Journées Polyèdres et Optimisation*, Valenciennes, France, June 6-8th, 2011.

Teaching Experience

Teaching assistant

- Spring 2016 **Langages de programmation 1**, *INFOF-105*, (12 lectures - 24 hours).
- Spring 2016 **Génie logiciel et gestion de projets**, *INFOF-310*, (18 lectures - 36 hours).
- Spring 2016 **Algorithmique et recherche opérationnelle**, *INFOF-310*, (18 lectures - 36 hours).
- Fall 2015 **Fonctionnement des ordinateurs**, *INFOF-102*, (6 lectures - 12 hours).
- Fall 2015 **Algorithmique 2**, *INFOF-203*, (12 lectures - 24 hours).
- Fall 2015 **Analyse et méthodes**, *INFOF-204*, (6 lectures - 12 hours).
- 2014/2015 **Project d'informatique 1**, *INFO-F-106*, (60 hours).
- Fall 2014 **Algorithmique 2**, *INFOF-203*, (12 lectures - 24 hours).
- Fall 2014 **Algorithmique et recherche opérationnelle**, *INFO-F-310*, (12 lectures - 24 hours).
- Fall 2014 **Structure and Interpretation of Computer Programs**, *INFOF-402*, (12 lectures - 24 hours).
- Spring 2014 **Algorithmique et recherche opérationnelle**, *INFOF-310*, (18 lectures - 36 hours).
- 2013/14 **Optimisation Continue**, *INFO-F-524*, (12 hours).
- 2013/14 **Project d'informatique 3**, *INFO-F-308*, (60 hours).

- Fall 2013 **Structure and Interpretation of Computer Programs**, INFOF-402, (12 lectures - 24 hours).
- Fall 2013 **Algorithmique 2**, INFOF-203, (12 lectures - 24 hours).
- Fall 2013 **Programmation**, INFO-F-101, (36 lectures - 72 hours).
- 2012/13 **Optimisation Continue**, INFO-F-524, (12 hours).
- 2012/13 **Project d'informatique 3**, INFO-F-308, (60 hours).
- Fall 2012 **Structure and Interpretation of Computer Programs**, INFOF-402, (12 lectures - 24 hours).
- Fall 2012 **Algorithmique 2**, INFOF-203, (12 lectures - 24 hours).
- Fall 2012 **Programmation**, INFO-F-101, (36 lectures - 72 hours).
- 2011/2012 **Project d'informatique 3**, INFO-F-308, (60 hours).
- 2011/2012 **Project d'informatique 1**, INFO-F-106, (60 hours).
- Spring 2012 **Algorithmique 2**, INFO-F-203, (12 lectures - 24 hours).
- Fall 2011 **Algorithmique et recherche opérationnelle**, INFO-F-310, (12 lectures - 24 hours).
- Fall 2011 **Programmation**, INFO-F-101, (36 lectures - 72 hours).

Computer skills

OS:	Windows, Linux, Unix, MacOS X	Web CMS:	Django, Joomla, WordPress, Drupal
DBMS	Derby, Firebird, InterBase, MySQL, OpenOffice.org Base, Microsoft Acces, SQLite	Office Suite	Windows Live Office, Microsoft Office (PC/Mac), OpenOffice, LibreOffice, iWork, Google Docs
Development Frameworks	NetBeans, Eclipse, PyCharm, XCode	Network Protocol	TCP/IP, OSI, OSPF, BGP, RIP(1/2x), SSH, FTP, SMTP, SFTP, Telnet, HTTP, HTTPS
Programming Languages	AMPL, AWK, Bash, Batch, C/C++, COBOL, Coq, csh, Datalog, Java, JavaScript, LaTeX, Lisp, make, Mathematica, ML, Mosel, Pascal, Perl, PHP, Prolog, Python, R, Racket, Scheme, Unix Shell, XSLT	Markup Languages	Tex, HTML, XML, XHTML

Languages

Italian, *Native proficiency.*

English, *Professional working proficiency.*

French, *Professional working proficiency.*