



GENERAL  
INFORMATION

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CAREER

**Carnegie Mellon.** Pittsburgh.  
Research Associate I. June 2014 - August 2014.  
School of Computer Science. Robotics.

EDUCATION

**Carnegie Mellon.** Pittsburgh.  
Master of Science. May 2014 - February 2015.  
School of Computer Science. ML Department and Robotics.

**Thesis:** A Library for Fast Kernel Expansions with Applications to Computer Vision and Deep Learning.

**Academic Distinctions:**

- HKPFS 2014-2015  
Highly prestigious HK Fellowship to pursue PhD studies at HKUST during academic years 2015-2018. Department of Computer Science and Engineering. Declined.
- SINGA PhD Fellowship 2014.  
Highly prestigious international award to pursue PhD studies at NTU Singapore during academic years 2015-2019. School of Electrical and Electronic Engineering. Declined.

**City University of Hong Kong.** Hong Kong.

Master of Science. September 2013 - February 2015.  
Department of Electrical Engineering.  
**GPA: 4.12** (0-4 scale).  
**Classification of Award: Distinction** (1/+100).

**Academic Distinctions:**

- Top Achiever 2015.  
Award for being the first with regard to academic performance.
- MS Internship Sponsorship 2014.  
Award for top performing students. Robotics. Carnegie Mellon. Pittsburgh.

- MS Entrance Scholarship 2013/2014.  
This award is given to the 3 most outstanding students.

**Universitat Autònoma de Barcelona.** Cerdanyola del Vallès (Barcelona).

5-year Degree in Engineering of Telecommunication, Second Cycle. 2011 - 2013.  
Specialization in Communications, Signal Processing and Microwave Engineering.  
School of Engineering.

**Thesis:** Construction and Performance of Network Codes.

**Grade: Excellent.** First Class with Distinction.

**Universitat Politècnica de Catalunya (UPC).** Barcelona.

5-year Degree in Engineering of Telecommunication, First Cycle. 2006 - 2009.

**University Entrance Examination.**

**Average Grade: 9.22/10.** First Class with Distinction.

**Academic Distinctions:**

- First year scholarship for university studies. Ministry of Education.  
This award is given to the top nationwide first year university students.
- First year scholarship for university studies. Caixa Manresa.  
This award is given to the top university entrance examination average grades in the region of Catalunya.
- University scholarship for an outstanding academic performance. Technological Baccalaureate. Government of Salou. This award is given to the top students in each graduation year by the local authority.

**Technological Baccalaureate.** 2004 - 2006.

**Average Grade: 9.7/10.** First Class Degree and Honorary Scholarship.

**Academic Distinctions:**

- Outstanding Thesis of Research. Development and Design of a Virtual Shop in Visual Basic on the .NET Framework.
- Outstanding Curriculum.

## PUBLICATIONS

**De Curtò i DíAz** and Duvall.

Vulcan Centaur: towards end-to-end real-time perception in lunar rovers.  
[arxiv.org/pdf/2011.15104](https://arxiv.org/pdf/2011.15104)

**De Curtò i DíAz** and Duvall.

Cycle-consistent Generative Adversarial Networks for Neural Style Transfer using data from Chang'E-4.  
[arxiv.org/pdf/2011.11627](https://arxiv.org/pdf/2011.11627)

**Curtò**, Zarzà, Kitani, King and Lyu.

Doctor of Crosswise: Reducing Over-parametrization in Neural Networks.  
[curto.hk/c/doctor\\_of\\_crosswise.pdf](https://curto.hk/c/doctor_of_crosswise.pdf)

**Curtò, Zarzà, Torre, King and Lyu.**  
High-resolution Deep Convolutional Generative Adversarial Networks.  
[curto.hk/c/hdcgan.pdf](http://curto.hk/c/hdcgan.pdf)

**Curtò, Zarzà, Smola and Gool.**  
Segmentation of Objects by Hashing.  
[curto.hk/c/c\\_and\\_z.pdf](http://curto.hk/c/c_and_z.pdf)

**Curtò, Zarzà, Yang, Smola, Torre, Ngo and Gool.**  
McKernel: A Library for Approximate Kernel Expansions in Log-linear Time.  
[curto.hk/c/mckernel.pdf](http://curto.hk/c/mckernel.pdf)

**De Curtò i DíAz, De Zarzà i Cubero and Vázquez.**  
Secure Network Coding: Overview and State-of-the-art.  
Universitat Autònoma de Barcelona. Cerdanyola del Vallès (Barcelona). 2012.  
[blogs.uab.cat/curto/files/2019/05/nc\\_decurto12.pdf](http://blogs.uab.cat/curto/files/2019/05/nc_decurto12.pdf)

**De Curtò i DíAz, Moreno, Torrellas, Bofill and Muñoz.**  
Dear New Student: a Comparison between a Frontal and an Active Approach.  
ALE 2007. Toulouse.

## DISSERTATIONS

Master of Science.  
A Library for Fast Kernel Expansions with Applications to Computer Vision and Deep Learning.  
Supervisors: Ngo and Smola.  
Carnegie Mellon. Pittsburgh. 2014.  
[curto.hk/c/decurto.pdf](http://curto.hk/c/decurto.pdf)  
[curto.hk/c/slides\\_decurto.pdf](http://curto.hk/c/slides_decurto.pdf)

5-year Degree in Engineering of Telecommunication.  
Construction and Performance of Network Codes.  
Supervisor: Vázquez.  
Universitat Autònoma de Barcelona. Cerdanyola del Vallès (Barcelona). 2013.  
[blogs.uab.cat/curto/files/2019/05/pfc\\_decurto.pdf](http://blogs.uab.cat/curto/files/2019/05/pfc_decurto.pdf)  
[blogs.uab.cat/curto/files/2019/05/slides\\_pfc\\_decurto.pdf](http://blogs.uab.cat/curto/files/2019/05/slides_pfc_decurto.pdf)

## LANGUAGES

English -  
**TOEFL Internet Based test.** 26-11-2016. **Score 114/120.**  
**First Certificate in English.** December 2005. **Grade: A.**

## WORK EXPERIENCE

**CELLS ALBA Synchrotron Facility.** Cerdanyola del Vallès, Barcelona.  
Research Scientist. April 2010 - June 2010.

**CELLS ALBA Synchrotron Facility.** Cerdanyola del Vallès, Barcelona.  
Internship. January 2010 - February 2010.

**Universitat Politècnica de Catalunya (UPC).** Barcelona.  
Teaching Assistant. Departament de Teoria del Senyal i Comunicacions. September 2009 - December 2009.

**CELLS ALBA Synchrotron Facility.** Cerdanyola del Vallès, Barcelona.  
Internship. July 2009 - September 2009.

**Universitat Politècnica de Catalunya (UPC).** Barcelona.  
Teaching Assistant. Departament d'Arquitectura de Computadors. 2008 - 2009.

**Universitat Politècnica de Catalunya (UPC).** Barcelona.  
Teaching Assistant. Departament d'Arquitectura de Computadors. 2006 - 2007.

## SERVICES

First European Training School in Network Coding: Random Network Coding and Designs over  $GF(q)$ . Universitat Autònoma de Barcelona (UAB). Barcelona. 4 - 8 February 2013.

From designs over  $GF(q)$  to applications of networking: a cross-road for mathematics, computer science and engineering.

Attendee and Volunteer.

ESOF 2008. Barcelona. 18 - 22 July 2008.

Scientific Volunteer.

## EXTRACURRICULAR ACTIVITIES

Program of Open Mentoring. Department of Computer Science. The University of Hong Kong. 2014 - 2018.

MS Class Representative, cohort 2013. Department of Electrical Engineering. City University of Hong Kong. 2013 - 2014.

Course in Investment and Financial Markets. Technical Analysis and Risk Management. Barcelona. 23 May 2011 - 26 May 2011.

Course in Investment and Financial Markets. Barcelona. 18 April 2011 - 21 April 2011.

Competition of Entrepreneurship. EMPREN UPC. 1st Edition. Universitat Politècnica de Catalunya (UPC). Finalist project awarded with honorable mention and 1000 euros. Barcelona. 14 March 2011 - 14 June 2011.

## PROGRAMMING

C, C++, Java, MATLAB, Python, HTML, VHDL and Assembly.

## SOFTWARE

L<sup>A</sup>T<sub>E</sub>X, Maple, PSpice and ADS.