



GENERAL  
INFORMATION

Legal Name: DE CURTÓ I DÍAZ Joaquim.  
e-mail: [c@decurto.ch](mailto:c@decurto.ch) webpage: [decurto.ch](http://decurto.ch)

CAREER

**The Chinese University of Hong Kong (CUHK).** Hong Kong.  
Research Assistant. October 2017 - February 2018.  
Department of Computer Science and Engineering.

**Carnegie Mellon.** Pittsburgh.  
Research Assistant. June 2017 - July 2017.  
School of Computer Science. Robotics.

**City University of Hong Kong.** Hong Kong.  
Senior Research Assistant. January 2017 - May 2017.  
Department of Electrical Engineering.

**ETH Zürich (ETHZ).** Zürich.  
Graduate Research Assistant. April 2015 - September 2016.  
Laboratory of Computer Vision.

**City University of Hong Kong.** Hong Kong.  
Research Associate. July 2015 - August 2015.  
Department of Computer Science.

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

EDUCATION

**ETH Zürich (ETHZ).** Zürich.  
Doctor of Science. April 2015 - March 2017 (withdraw, post-candidacy).  
Laboratory of Computer Vision.

**Carnegie Mellon.** Pittsburgh.  
Master of Science (exchange). 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.

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

Master of Science. September 2013 - February 2015.

Department of Electrical Engineering.

**GPA: 4.12** (0-4.3 scale).

**Classification of Award: Distinction** (ranked 1st in the program).

**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 (UAB).** Barcelona.

5-year Degree in Engineering of Telecommunication, Second Cycle. 2011 - 2013.  
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

**Curtó**, Zarza, Kitani, King and Lyu.  
Doctor of Crosswise: Reducing Over-parametrization in Neural Networks.  
<http://arxiv.org/pdf/1905.10324>

**Curtó**, Zarza, Torre, King and Lyu.  
High-resolution Deep Convolutional Generative Adversarial Networks.  
<http://arxiv.org/pdf/1711.06491>

**Curtó**, Zarza, Smola and Gool.  
Segmentation of Objects by Hashing.  
<http://arxiv.org/pdf/1702.08160>

**Curtó**, Zarza, Yang, Smola, Torre, Ngo and Gool.  
McKernel: A Library for Approximate Kernel Expansions in Log-linear Time.  
<http://arxiv.org/pdf/1702.08159>

**Curtó**, Zarza and Vázquez.  
Secure Network Coding: Overview and State-of-the-art.  
Universitat Autònoma de Barcelona. Bellaterra. 2012.  
<http://blogs.uab.cat/curto/files/2019/05/nc.decurto12.pdf>

Bofill, Muñoz, **Curtó**, Moreno and Torrellas.  
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.  
<http://curto.hk/c/decurto.pdf>  
[http://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. Bellaterra. 2013.  
[http://blogs.uab.cat/curto/files/2019/05/pfc\\_decurto.pdf](http://blogs.uab.cat/curto/files/2019/05/pfc_decurto.pdf)  
[http://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.