Joaquim de Curtó

GENERAL
INFORMATION

Legal Name: DE CURTÓ I DÍAZ Joaquim.
E-mail: c@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.
 Department of Information Technology and Electrical Engineering.
 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).
Department of Information Technology and Electrical Engineering.
Laboratory of Computer Vision.

City University of Hong Kong. Hong Kong.

MS Multimedia Information Technology. September 2013 - February 2015.
Department of Electrical Engineering.
GPA: 4.12 (0-4.3 scale).
Classification of Award: Distinction (ranked 1st in the program).

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

Academic Distinctions:

- Top Achiever 2015.
  Award for being the first with regard to academic performance in the MS Multimedia Information Technology.
- 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.

Carnegie Mellon. Pittsburgh.

Visiting Student. September 2014 - February 2015.
School of Computer Science. ML Department.

Carnegie Mellon. Pittsburgh.

Visiting Student. May 2014 - August 2014.
School of Computer Science. Robotics.

Universitat Autònoma de Barcelona (UAB). Barcelona.

Enginyeria Superior de Telecomunicació, 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.

Enginyeria Superior de Telecomunicació, 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. Ajuntament de Salou. This award is given to the top students in each graduation year by the local government.

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 and Zarza.
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/1711.06491v13

Curtó, Zarza, Smola and Gool.
Segmentation of Instances by Hashing.
http://arxiv.org/pdf/1702.08160v9

Curtó, Zarza, Yang, Smola, Torre, Ngo and Gool.
McKernel: A Library for Approximate Kernel Expansions in Log-linear Time.
http://arxiv.org/pdf/1702.08159v10

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

DISSERTATIONS

MS Thesis. Multimedia Information Technology.
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/curto.pdf
http://curto.hk/slides_curto.pdf

Enginyeria Superior de Telecomunicació.
Construction and Performance of Network Codes.
Supervisor: Vázquez.
Universitat Autònoma de Barcelona. Bellaterra. 2013.
http://blogs.uab.cat/curto/files/2019/05/pfc_curto.pdf
http://blogs.uab.cat/curto/files/2019/05/slides_pfc_curto.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. Multimedia Information Technology. 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. EMPRÈN 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

LaTeX, Maple, PSpice and ADS.