



GENERAL
INFORMATION

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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: 3.86 (0-4.3 scale).

Classification of Award: Distinction.

Academic Distinctions:

- MS Internship Sponsorship 2014.
Award for top performing students. Robotics. Carnegie Mellon. Pittsburgh.

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

Degree in Mathematics. 2011 - 2013.

Specialization in Pure Mathematics.

Department of Mathematics. Faculty of Sciences.

Thesis: Physical-layer Network Coding: Design of Constellations over Rings.

Grade: Excellent. First Class with Distinction.

Universitat de Barcelona. Barcelona.

Mathematics, Licentiate. First Cycle. 2007 - 2011.

Department of Mathematics and Computer Science.

University Entrance Examination.

Average Grade: 8.93/10. 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.

Technological Baccalaureate. 2005 - 2007.

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

Academic Distinctions:

- Outstanding Thesis of Research: Squaring the Circle. Study of the different mathematical approaches to solve the ancient problem of the quadrature of the circle.
- Outstanding Curriculum.

PUBLICATIONS

Curtó, **Zarza**, Kitani, King and Lyu.

Doctor of Crosswise: Reducing Over-parametrization in Neural Networks.

https://www.dezarza.ch/c/doctor_of_crosswise.pdf

Curtó, **Zarza**, Torre, King and Lyu.

High-resolution Deep Convolutional Generative Adversarial Networks.

<https://www.dezarza.ch/c/hdcgan.pdf>

Curtó, **Zarza**, Smola and Gool.
Segmentation of Objects by Hashing.
https://www.dezarza.ch/c/c_and_z.pdf

Curtó, **Zarza**, Yang, Smola, Torre, Ngo and Gool.
McKernel: A Library for Approximate Kernel Expansions in Log-linear Time.
<https://www.dezarza.ch/c/mckernel.pdf>

De Curtó i Díaz, **De Zarza i Cubero** and Vázquez.
Secure Network Coding: Overview and State-of-the-art.
Universitat Autònoma de Barcelona. Cerdanyola del Vallès (Barcelona). 2012.
https://blogs.uab.cat/zarza/files/2019/05/nc_decurto12.pdf

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.
<https://www.zarza.hk/z/dezarza.pdf>
https://www.zarza.hk/z/slides_dezarza.pdf

Degree in Mathematics.
Physical-layer Network Coding: Design of Constellations over Rings.
Supervisors: Vázquez and Mondelo.
Universitat Autònoma de Barcelona. Cerdanyola del Vallès (Barcelona). 2013.
https://blogs.uab.cat/zarza/files/2019/05/pfc_dezarza.pdf
https://blogs.uab.cat/zarza/files/2019/05/slides_pfc_dezarza.pdf

WORK EXPERIENCE

Institut d'Educació Secundària Joan Coromines. Barcelona.
Teaching Assistant. 2005 - 2006.

LANGUAGES

English -

TOEFL Internet Based test. 11-12-2016. **Score 102/120.**

SERVICES

First European Training School in Network Coding: Random Network Coding and Designs over $GF(q)$. IEEE Information Theory Society. Universitat Autònoma de Barcelona. Cerdanyola del Vallès (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.

EXTRACURRICULAR
ACTIVITIES

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

Symposium of the Royal Society of Mathematics. The Millennium Problems. Awarded with an assistance grant by Institut de Matemàtica de la Universitat de Barcelona. Barcelona. 1 - 3 June 2011.

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

Course in Investment and Financial Markets. Barcelona. 18 - 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, Python, MATLAB and Prolog.

SOFTWARE

L^AT_EX, R, Maple, Mathematica and EViews.