I. de Zarzà i Cubero

GENERAL
INFORMATION

E-mail: z@dezarza.tw
Webpage: www.dezarza.tw

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.

City University of Hong Kong. Hong Kong.

Master of Science. September 2013 - February 2015.
Department of Electrical Engineering.
GPA: 3.86 (0-4 scale).
Classification of Award: Distinction (4/+100).

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

Curtò, **Zarzà**, Kitani, King and Lyu.
Doctor of Crosswise: Reducing Over-parametrization in Neural Networks.
https://www.zarza.hk/c/doctor_of_crosswise.pdf

Curtò, **Zarzà**, Torre, King and Lyu.
High-resolution Deep Convolutional Generative Adversarial Networks.
https://www.zarza.hk/c/hdcgan.pdf

Curtò, **Zarzà**, Smola and Gool.
Segmentation of Objects by Hashing.
https://www.zarza.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.
https://www.zarza.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.
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). 04/02 - 08/02. 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

LaTeX, R, Maple, Mathematica and EViews.