



Julià Minguillón

[Educational] Data Scientist

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<https://www.uoc.edu/webs/jminguillona/> (latest version of this CV [here](#))

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PROFILE

Areas of interest

- Learning Analytics and Educational Data Mining.
- Machine Learning (decision trees, neural networks, classifier ensembles).
- Personalization and recommendation systems.
- Characterization of user behavior in virtual environments and social networks.
- Visual analytics.

Results driven

- Author of learning resources and textbooks about Data Mining, Visualization, Programming and Data Structures.
- Author of many scientific publications in journals, books, book chapters and conference proceedings (click [here](#)).
- Keynote speaker in several national and international conferences and workshops (ECEL 2009, MTSR 2010, SPDECE 2011, ...)
- Advisor of four PhD dissertations, plus two more ongoing.
- Principal investigator of several national and international research projects.

Participation

- Member of [LAIKA](#) research group.
- Member of ACM and Special Interest Group in Computer Science Education
- Member of Amical Wikimedia (Catalan chapter of Wikipedia).

WORK

Universitat Oberta de Catalunya 2001 – today

- Associate professor at the Computer Science, Multimedia and Telecommunication Department.

E-Learn Center 2013 – 2015

- Responsible for Applied Research:
 - Development of research policies and regulations.
 - Support to UOC e-learning research groups.
 - Promotion of applied e-learning research among faculty.
- Leader of special interest group about dropout in higher education.
- Design and implementation of UOC Learning Analytics datamart.
- Supervision of E-Learn Center e-Learning research map ([here](#)).

UNESCO Chair in E-Learning
2009 – 2012

- Academic director of the UOC UNESCO Chair in E-Learning.
- Preparation of roundtables and international seminars.
- Promotion of Open Educational Resources.

Universitat Autònoma de Barcelona
1995 - 2006

- Adjunct professor at the Information and Communications Engineering Department.
- Generalitat de Catalunya grant holder for early-stage research staff.

EDUCATION

Universitat Autònoma de Barcelona

- 1997-2002: PhD in Computer Science Engineering, entitled “*On Cascading Small Decision Trees*” ([here](#)).
- 1995-1997: Master degree in Combinatory and Digital Communications, entitled “*Quality Measures and Quantification Error of JPEG standard Sequential and Progressive Operation Modes*”.
- 1992-1995: Bachelor degree in Computer Science Engineering, entitled “*Implementation of JPEG standard progressive operation mode in the Independent JPEG Group (IJG) Library*”.

Escola Universitària d’Informàtica de Sabadell

- 1989-1992: Technical degree in Computer Science Systems Engineering, entitled “*A 2D CAD for fractal images*”.

SKILLS

Technical

- Strong mathematical background.
- Strong programming skills: C, Java, JavaScript, Python, R, ...
- Good knowledge of web standards: HTML, CSS, ...
- Strong knowledge of GNU/Linux administration and scripting: bash, awk, ...
- Good knowledge of database design and management: SQL, ...
- LaTeX friendly.

Personal

- Creative, innovative, artful.
 - Critical thinker.
 - Motivated, dependable and reliable.
 - Organized and goal oriented, ideas, proof-of-concepts, prototypes.
 - Openness ‘evangelist’: open source, open educational resources, open data, ...
 - Reasonable presence in many social networks (but mainly [Twitter](#)).
 - Wikipedia fan.
 - Amateur photographer.
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