

Dr. Víctor Ponce López

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Contact

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London, United Kingdom

Languages

Catalan ★★★★★ (native),
Spanish ★★★★★ (native),
English ★★★★★ (fluent),
Français ★★★★★
(basic reading/writing/oral).

Programming, Libs, Methods, Tools and Environments

◆ Python, MATLAB, C++/C#/C, R, PyCharm, Netbeans, Eclipse, VS/VC++, SVN/GIT/Redmine, \LaTeX , PostgreSQL, SQL, Tableau, Hive, Spark, Hadoop, CodaLab, Kaggle, Bash, PHP/HTML/JS, Web3;
Deep Learning & Computer Vision libraries and toolboxes:
◆ Tensorflow, PyTorch, Keras, GAN, CNN, LSTM, dlib, CUDA+CuDNN, Kinect™ SDK, open{CV/NI/GL}, CNTK+; evolutionary computation and statistical pattern recognition:
◆ pandas, numpy, sklearn, optmintool, gatool, pmtk3, deap, matplotlib, statsmodel.

OS Preferences

GNU/Linux ★★★★★
Windows ★★★★★
MacOS ★★★★★
Android ★★★★★
iOS ★★★★★

short bio

I am a Research Fellow at the UCL Dept. of Computer Science and a former RF at the Energy Institute. I am a member of the European Laboratory for Learning and Intelligent Systems ELLIS and a Honorary Research Fellow at the University of Bristol. I was a Research Scientist at the Big Data & Data Science unit, EureCat Technology Centre. I hold a PhD from the Dept. of Mathematics and Computer Science, University of Barcelona. I received my BSc degree in Computer Science and Engineering at the UB Faculty of Mathematics, and my MSc degree in Artificial Intelligence at the Polytechnic University of Catalonia. I was a visiting researcher at the Laboratoire d'Informatique Fondamentale, Aix-Marseille Université. I am a former member of HuPBA and Alwell at the Computer Vision Center and the Open University of Catalonia.

experience

- 2020–present **University College London** London, United Kingdom
Research Fellow in Machine Learning at CS Dept.; former RF at the Energy Institute
- **Machine Learning** in online search activity and AI for Health.
 - **Natural Language Processing** and ML for Disasters, Environment & Resources.
 - **Time-Series Forecasting** of Energy Markets using deep neural networks.
- 2017–2020 **University of Bristol** Bristol, United Kingdom
Research Fellow & PostDoc Research Associate at the Visual Information Lab.
- **Time-Series Prediction** of Seasonal Ground Surface Deformation.
 - **Computer Vision** for Human Activity Recognition in Home Healthcare.
- past–2017 **Eurecat Technology Center, University of Barcelona, Open University of Catalonia, Computer Vision Center, Dept. of Justice @ GOV Catalonia, Barcelona City Council's Dept. of Education, Culture and Welfare**
Research Scientist, PostDoc, Collaborations in Research & IT, international PhD stay, 40+ scientific publications and peer-reviews, teaching and material preparation, organization/attendance on international conferences, events, and seminars.
- 8 impact factor journals, 17 conference proceedings, and 1 book chapter.
 - ChaLearn Looking At People collaboration with **Microsoft, NVIDIA, Google, Amazon, Disney, Facebook, Orange, MWC-GSMA**.
 - Research projects on human behavior analysis for real-world applications.

education

- 2012–2016 **Ph.D. in Mathematics and Computer Science**
Faculty of Mathematics, University of Barcelona
Dissertation: "Evolutionary Bags of Space-Time Features for Human Analysis." **Cum Laude and International Mention.**
- 2010–2012 **M.Sc in Artificial Intelligence**
Polytechnic University of Catalonia, University of Barcelona, and Rovira i Virgili University.
Dissertation: "Multi-Modal Human Gesture Recognition combining Dynamic Programming and Probabilistic Methods." **With Honors.**
- 2006–2010 **B.Sc in Computer Science: Systems engineering**
Faculty of Mathematics, University of Barcelona.
Dissertation: "Analysis of Oral and Gestural Expression using an Artificial Vision System." **With Honors.**

extracurricular

- 2006–Present **Driving license**
- 1998–2004 **Musical language and Piano licenses**

interests

I'm a passionate of diversity in research & technology. My main interests are machine learning and deep pattern recognition to address real-world applications. I follow cutting-edge research and technology to be aware of future trends to come and new social needs for the people.