Dr. Víctor Ponce López

Contact
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London, United Kingdom

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

Programming Languages, Libs, Tools, Web and Environments
♥ Python, MATLAB, C++/C#/C, R, PyCharm, Netbeans, Eclipse, VS/VC++, SVN/GIT, Redmine, LaTeX, XML, PostgreSQL, SQL, MySQL, Tableau, Hive, Spark, Hadoop, CodaLab, Kaggle, Bash, PHP/HTML/CSS/JavaScript;
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:
♥ numpy, matplotlib, sklearn, optimtool, gatool, pmtk3, deap, pandas, statsmodel.

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

short bio
I am a former Research Fellow at the UCL Energy Institute. I am a member of the European Laboratory for Learning and Intelligent Systems (ELLIS) and a Honorary Research Fellow at the Dept. of Computer Science at the University of Bristol. I was a Research Scientist in Eurecat at the Big Data Analytics Unit. I hold a PhD at the the Dept. of Mathematics and Computer Science, University of Barcelona (UB). I received my B.Sc. degree in Computer Science and Engineering at the Faculty of Mathematics of UB, and my M.Sc. degree in Artificial Intelligence at the Polytechnic University of Catalonia. I was affiliated to the Computer Vision Center and the Open University of Catalonia, in the groups HuPBA and SUNAI; and the group Qarma at the Laboratoire d'Informatique Fondamentalle, Aix-Marseille Université.

experience

2020–2022	**University College London**	London, United Kingdom

Research Fellow in Machine Learning at the UCL Energy Institute
- **Natural Language Processing** on Disasters for the Environment & Energy.
- **Time-Series Forecasting** of Energy Markets using Deep Neural Networks.

2017–2020	**University of Bristol**	Bristol, United Kingdom

PostDoc Research Associate & Research Fellow at the Visual Information Lab.
- **Time-Series Prediction** of Seasonal Ground Surface Deformation.
- **Computer Vision** for Human Activity Recognition in Home Healthcare.
- Domain Adaptation, Self-Supervised Learning, GANs, Person Re-IDentification.

past–2017 — **Eurecat Technology Center of Catalonia, University of Barcelona, Open University of Catalonia, Computer Vision Center, Dept. of Justice @ GOV of Catalonia, and 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.
- 4 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 within real-world domains.

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.