

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, Libs, Methods, Tools and Environments

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

OS Preferences

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

short bio

I am a Senior Research Fellow at the UCL dept. of Medical Physics and Cancer Institute, and former RF at the dept. of Computer Science and the Energy Institute. I am a member of the European Laboratory for Learning and Intelligent Systems ELLIS and a former Researcher 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
Senior Research Fellow in Artificial Intelligence for Healthcare
- **Computer Vision & Feature Fusion** in tumour classification of ST sarcomas.
 - **Large Language Models** in online search activity for early detection of Cancer.
 - **NLP & Machine Learning** for Disaster Response, Environment & Resource management; **Time-Series Forecasting** in Energy markets using **Deep Neural Networks**.
- 2017–2020 **University of Bristol** Bristol, United Kingdom
Research Fellow & Honorary Research Associate at the Visual Information Lab.
- **Time-Series Prediction** of Seasonal Ground Surface Deformation using DL.
 - **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

Licenses/Hobbies **Driving license; former Musician; former Martial Artist.**

interests

I am a passionate of science & technology. My research interests are deep learning, multi-modal feature fusion, and generative AI. I like to be in the vanguard of cutting-edge technology to address real-world problems and applications in areas with high socioeconomic impact.