Miquel Perelló Nieto

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Education

- **Ph.D. in Computer Science**   **2016 – Curr**
  University of Bristol   *Bristol, UK*

  – Learning hierarchical features using new semi-supervised learning techniques.

- **M.Sc. in Machine Learning and Data Mining**   **2013 – 2015**
  Aalto University School of Science   *Espoo, Finland*

  – Thesis **"Merging chrominance and luminance in early, medium and late fusion using Convolutional Neural Networks"** with distinction.

- **M.Sc. in Artificial Intelligence**   **2012 – 2015**
  Consortium of three universities: *Catalonia, Spain*
  Technical University of Catalonia, University of Barcelona, and Rovira i Virgili University

  – Information retrieval, Robotics, Computer vision, Computational intelligence

- **B.Sc. in Technical Engineer in Computer Systems**   **2007 – 2012**
  Barcelona School of Informatics at the Technical University of Catalonia   *Barcelona, Spain*

  – Thesis **"Design of a platform to test distributed control systems"** with distinction.

- **Vocational Training in Development of electronic devices**   **2004 – 2006**
  Escola del treball   *Barcelona, Spain*

- **High school degree with specialisation on Science and Technology**   **2002 – 2004**
  Col·legi la Mercè - Martorell   *Martorell, Spain*

  – Research project on **"Sub-atomic world and particle accelerators"**.

Research interests

- Machine Learning
- Artificial Intelligence
- Semi-supervised learning
- Classifier calibration
- Classifier confidence
- Weak labels
- Anomaly detection
- Bayesian modeling
- Deep Learning

Publications

1. Perelló-Nieto, M., Santos-Rodríguez, R. and Cid-Sueiro, J.
   Adapting Supervised Classification Algorithms to Arbitrary Weak Label Scenarios , in Advances in Intelligent Data Analysis XVI: 16th International Symposium, IDA 2017, London, UK, October 26–28, 2017, Proceedings. Springer Verlag, pp. 247-259

2. Perelló-Nieto, M., Silva Filho, T.M., Kull, M. and Flach, P.
   Background Check: A general technique to build more reliable and versatile classifiers , in IEEE 16th International Conference on Data Mining (ICDM2016), Barcelona, Spain, Dec, 2016.

3. Fuertes, J. M., Villà, R., Ayza, J., Mars, P., Martí, P., Velasco, M., Yepez, J., Torres, G., Perelló, M.
   Hands-on Course in Networked Control Systems , Spain.In 20th Mediterranean Conference on Control and Automation (MED2012), Barcelona, Spain, July, 2012.

4. Fuertes, J. M., Villà, R., Ayza, J., Mars, P., Martí, P., Velasco, M., Yepez, J., Torres, G., Perelló, M. **Design of a Hands-on Course in Networked Control Systems** XV Jornadas de Tiempo Real, Santander, Spain, January, 2012.

Work experience

- **Research Associate**   2017 – Curr
  University of Bristol, Department of Electrical and Electronic Engineering   *Bristol, UK*
    - Project SPHERE – a Sensor Platform for HEalthcare in a Residential Environment
    - Granted by EPSRC IRC – Engineering and Physical Science Research Council an Interdisciplinary Research Collaboration

- **Research Associate**   2016 – 2017
  University of Bristol, Department of Engineering Mathematics   *Bristol, UK*
    - Activity recognition using multivariate time series modeling

- **Research Assistant**   2016 – 2016
  Université de Strasbourg, ICube Laboratory   *Strasbourg, France*
    - Project REFRAME – Rethinking the Essence, Flexibility and Reusability of Advanced Model Exploitation
    - Granted by CHIST-ERA – European Coordinated Research on Long-term Challenges in Information and Communication Sciences & Technologies ERA-Net

- **Research Assistant**   2015 – 2016
  University of Bristol, Intelligent Systems Laboratory   *Bristol, UK*
    - REFRAME project granted by CHIST-ERA

- **Research Assistant**   2014 – 2015
  Aalto University School of Science   *Espoo, Finland*
    - Unsupervised Learning of Multiple Languages Using Recurrent Neural Networks
    - On the use of Convolutional Neural Networks for spatio-temporal feature extraction

- **Software Designer/Developer & Systems Administrator**   2010 – 2013
  FACERAS, S.L.   *Barcelona, Spain*
    - Development of an **access control system along several buildings of Barcelona**.

- **Installer & Technical Service Manager**   2006 – 2010
  DN Electrónic 2002, S.A.   *Martorell, Spain*