



# 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*
  - Designed and implemented a pre-amp equalizer.
- **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**".

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## Research interests

- Artificial Intelligence
- Neural Networks
- Cognitive Science
- Deep Learning
- Robotics
- Computer Vision
- Meta-learning

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## Publications

1. Miquel Perelló Nieto, Telmo de Menezes e Silva Filho, Meelis Kull and Peter Flach  
**Background Check: A general technique to build more reliable and versatile classifiers** , 2016 IEEE 16th International Conference on Data Mining (ICDM2016), Barcelona, Spain, Dec, 2016.

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

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## Work experience

- Research Associate** **2016 – Curr**  
*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*  
 – REFRAME project 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  
 – Merging chrominance and luminance in an early, medium and late fusion using Convolutional Neural Networks
  - Software Designer/Developer & Systems Administrator** **2010 – 2013**  
*FACERAS, S.L.* *Barcelona, Spain*  
 – Design and implementation of an **access control system along several buildings of Barcelona**.
    - \* Embedded Devices: IGEPv2, Arduino, PLC Schneider, Mbed (Philips).
    - \* Operating Systems:
      - Servers:** Debian
      - Desktops:** Ubuntu, Windows XP
      - Embedded:** Poky Linux
    - \* Programming languages: C++, C, Python, Bash, Perl, MySQL, PHP, Javascript.
    - \* Communication protocols: ModBus, CAN, Serial RS232, VoIP.
  - Installer & Technical Service Manager** **2006 – 2010**  
*DN Electrónica 2002, S.A.* *Martorell, Spain*
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## Core Technical Skills

**Programming languages:** Python, C++, C, ASM, Java, R, Matlab, Bash, Perl, CLIPS, PROLOG, SQL, PHP, JavaScript, L<sup>A</sup>T<sub>E</sub>X

**Open Source Contributions:** Tetris for Arduino and uOLED screen (4D Systems).