

# Miquel Perelló Nieto

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## Education

- **Ph.D. in Computer Science** **2016 – Curr**  
*University of Bristol* *Bristol, UK*
    - Thesis "**Uncertainty aware classification: Augmenting classifiers to handle uncertainty**".
  - **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**".
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## Publications

1. **Human Activity Recognition Based on Dynamic Active Learning** Bi, H, Perello Nieto, M, Santos-Rodriguez, R & Flach, PA. 2020, IEEE Journal of Biomedical and Health Informatics.
2. **Recycling weak labels for multiclass classification** Perello Nieto, M., Santos-Rodriguez, R., Garcia-Garcia D., Cid-Sueiro, J. 2020, Journal of Neurocomputing (Volume 400, pp. 206-215).
3. **Beyond temperature scaling: Obtaining well-calibrated multiclass probabilities with Dirichlet calibration** Kull, M., Perello Nieto, M., Kängsepp, M., Silva Filho, T., Song, H., Flach, P. 2019, In Advances in Neural Information Processing Systems (pp. 12295-12305).
4. **HyperStream: a Workflow Engine for Streaming Data** Diethe, T., Kull, M., Twomey, N., Sokol, K., Song, H., Perello-Nieto, M., Tonkin, E. & Flach, P. , 7 Aug 2019, In : arXiv.
5. **Releasing eHealth analytics into the wild: Lessons learnt from the SPHERE project** Diethe, T, Nieto, MP, Tonkin, E, Holmes, M, Sokol, K, Twomey, N, Kull, M, Song, H & Flach, P 2018, KDD'18: Proceedings of the 24th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining. Association for Computing Machinery (ACM), pp. 243-252
6. 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

7. 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.
  8. 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.
  9. 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** **2022 – Curr**  
*University of Bristol, Department of Electrical and Electronic Engineering* *Bristol, UK*
  - Project TAILOR – Foundations of Trustworthy AI - Integration Reasoning, Learning and Optimization
  - Granted by HORIZON 2020
- Research Associate** **2018 – 2022**  
*University of Bristol, Department of Electrical and Electronic Engineering* *Bristol, UK*
  - Project SPHERE Next Steps
  - Granted by EPSRC IRC
- Research Associate** **2017 – 2018**  
*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 REFAME – 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*
  - REFAME 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**

*DN Electrónica 2002, S.A.*

**2006 – 2010**

*Martorell, Spain*

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## Other activities

- PyData Bristol Meetup co-organiser 2017-2020
- Attended Machine Learning Summer School (Madrid) 2018
- Attended ACAI-TAILOR Summer School (Barcelona) 2022
- Group facilitator at a Data Study Group 2019 (The Alan Turing Institute)
- Reviewer for Neurcomputing since 2020
- Program Committee member ECML-PKDD 2020-Present
- Reviewer at SafeAI 2021
- Reviewer for the Royal Society Open Science since 2022
- Reviewer for the Journal of Visual Communication and Image Representation since 2019