



Joaquim Bellmunt Montoya, Ph.D.

Technological innovations that allows the interoperability between agents and the better context understanding.
NLP, Knowledge Graph, Open Linked Data and Internet of Things.

📍 Singapore
📅 Barcelona, Oct 15th 1987
✉️ joaquim.bell@gmail.com
☎️ (+65) 81193783
📞 quimbell
🌐 [joaquimbellmunt](https://www.linkedin.com/in/joaquimbellmunt)

WORK EXPERIENCE

ACCENTURE PTE., *NLP & Knowledge Graph SME*

Feb 2018 - Present



I joined Accenture after the Ph.D. defense to develop the Knowledge Graph Practice and provide to client the best cloud experience in the data management. Also involved in NLP projects to ensure the high standards quality and interoperability Knowledge Graph, NLP, Semantic Web, Open Linked Data, Graph Analytics.

High-lighted Project: • Changi Airport Chatbot • Knowledge Graph Rapid Prototyping Asset • Big Data Cloud Data Lake Architect



PIXIUM DIGITAL PTE LTD., *Artificial Intelligence Consultant*

collaboration upon request

Pixium Digital was founded in 2015 by Digital market experts and experienced developers with the goal of providing everyone with a customised digital solution: Mobile Development, Data Science, IoT, ML and Knowledge Aggregation.



IMAGE AND PERVASIVE ACCESS LAB (CNRS UMI), *Research Assistant*

Jul 2014 - Nov 2017

Ph.D. Student attachment. focusing on Semantic Reasoning, Data Mining, Human Condition Computation and Context-Aware Service Delivery in Ambient Assisted Living deployments for Ageing in Place. **Ambient Assisted Living Framework presentation:** [UBISmart v4.0](#)

Project Management

- **City4Age and Pulse (HORIZON 2020)** System Architect and Technical Project Manager in 2 Pilot sites (Singapore and Montpellier) in a European project focusing on the use of IoT technologies to help frail elderly to live with independence and safety.



KPMG, *IT Auditor*

Nov 2013 - Apr 2014

Systems Auditor for annual audits in several multinational companies.



LIRMM, *Research Intern*

Mar 2013 - Sep 2013

Master Thesis Internship in Medical Robotics.



DEPT. OF SIGNAL THEORY AND COMMUNICATIONS, *Fellow Intern*

Feb 2011 - Jan 2012

Part of my responsibilities were the computer maintenance and support for all department staff.

EDUCATION



PH.D. IN COMPUTER SCIENCE

Institut Mines-Télécom, University of Montpellier (CNRS UMI), France

Jul 2014 - Nov 2017

3 years Ph.D. Program in Computer Science.



MSC. IN TELECOMMUNICATIONS ENGINEERING

ENS Telecom Bretagne, Brest, France

Feb 2012 - Sep 2013

Double Master Degree program with TelecomBCN.



BSC AND MSC. IN TELECOMMUNICATIONS ENGINEERING

TelecomBCN (ETSETB, UPC Barcelona Tech), Spain

Sep 2005 - Jan 2012

Modules in Probability & Statistics, Data & Signal Processing, Telematics, Communications, etc.

SKILLS



 Native Speaker;  Native Speaker;  Bilingual;  Full Competence



- **Cloud Technology:** GCP; AWS; Watson; Azure, Datastax.
- **ML/DL:** TensorFlow; Keras; NLTK; TensorBoard; PyTorch.
- **KG/Semantic Web:** RDF/OWL; N3; LOD; Python and NodeJs wrappers; Property Graph; TinkerPop; Cypher.
- **Data Management:** RDF Triples; MySQL; PostgreSQL; MongoDB.
- **Coding:** JavaScript; Java; Python; N3; Bash; R; Git.



Sportive, specially Football, and Barça fan. Cinema, traveling, driving.



- Founder and Manager of two football teams in Singapore regrouping European people.
- Board member of [Telecogresca](#) in 2011 and 2012. Telecogresca is a student association, which organizes a music festival hosting every year more than 10.000 people. Former Vice-President of the sports student association at TelecomBCN, CET, which organizes every semester different sportive competitions, such as Football, Basketball or Volleyball.

PUBLICATIONS

- Kodys, M., Oliver, P., **Bellmunt, J.**, Aloulou, H., Kaddachi, F. & Mokhtari, M. Smart Mobility in Urban Assisted Living Environments. In *Information Integration and Web-based Applications & Services*, 2017. *Accepted*
- Kodys, M., **Bellmunt, J.**, Aloulou, H. & Mokhtari, M. Oh, wait, reasoning was wrong! Let's replay. In *Semantic Web Technologies for the Internet of Things*, 2017. *Accepted*
- **Bellmunt, J.**, Mokhtari, M., Abdulrazak & B., Aloulou. Validation of an Ubiquitous Computational Frailty Model Towards an Adaptable Ambient Assisted Living Framework. In *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies & UbiComp. 3rd Issue Nov. ACM*, 2017. *Under Review*
- Aloulou H., Endelin R., Mokhtari M., Abdulrazak B., Kaddachi F., **Bellmunt, J.** Activity Recognition Enhancement Based on Ground-Truth: Introducing a New Method Including Accuracy and Granularity Metrics. In *ICOST*. Springer, 2017.
- Sadek, I., **Bellmunt, J.**, Kodyš, M. & Mokhtari, M. Novel Unobtrusive Approach for Sleep Monitoring Using Fiber Optics in an Ambient Assisted Living Platform. In *ICOST*. Springer, 2017.
- Kadachi, F., Aloulou, H., Abdulrazak, B., **Bellmunt, J.**, Endelin, R., Mokhtari, M. & M.Fraisse, P. Technological Approach for Behavior Change Detection toward Better Adaptation of Services for Elderly People. In *Health Informatics*. 2017.
- **Bellmunt, J.**, Mokhtari, M., Abdulrazak, B. & Aloulou, H. Agile Framework for Rapid Deployment in Ambient Assisted Living Environments. In *Information Integration and Web-based Applications and Services*. ACM, 2016.
- Aloulou, H., Abdulrazak, B., Endelin, R., Kadachi, F. & **Bellmunt, J.**. Detecting Inconsistencies in Rule-Based Reasoning for Ambient Intelligence. In *Engineering of Complex Computer Systems (ICECCS)*. IEEE, 2016.
- **Bellmunt, J.**, Mokhtari, M., Abdulrazak, B., Aloulou, H. & Kodys, M. Experimental Frailty Model Towards an Adaptable Service Delivery for Aging People. In *Engineering of Complex Computer Systems (ICECCS)*. IEEE, 2016.
- Aloulou, H., Abdulrazak, B., Endelin, R., Bentes, J., Tiberghien, T. & **Bellmunt, J.**. Simplifying Installation and Maintenance of Ambient Intelligent Solutions Toward Large Scale Deployment. In *ICOST*. Springer 2015.
- **Bellmunt, J.**, Tiberghien, T., Mokhtari, M., Aloulou, H. & Endelin, R. Technical Challenges Towards an AAL Large Scale Deployment. In *ICOST*. Springer, 2015.

COURSES & AWARDS

Courses

- Google Cloud Platform Big Data and Machine Learning Fundamentals, 2017 (Coursera)
- Semantic Web Summer School, 2015 (SWSS)
- Machine Learning, 2014 (Coursera)
- OpenHPI, Semantic Web Technologies, 2013 (OpenHPI)

Awards



IOT HACKATHON, I²R/A*STAR - ETPL - SIAA

Apr 2015

First Runner Up at IoT Hackathon organized by I²R/A*STAR - ETPL - SIAA