

Joaquim Bellmunt Montoya, Ph.D.

Technological innovator to enable interoperability and context understanding.

Cloud Technology, NLP, Knowledge Graph, Open Linked Data and Internet of Things.

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WORK EXPERIENCE

ACCENTURE PTE., NLP & Knowledge Graph SME

Feb 2018 - Present



I develop the Knowledge Graph Practice and provide to the client the best cloud experience in the data management. I am also involved in NLP projects to ensure the best quality standards and interoperability [Knowledge Graph](#), [Deep NLP](#), [Semantic Web](#), [Open Linked Data](#), [Graph Analytics](#).

Highlighted Projects

Technical Lead Chatbot Changi Airport

- Multi-Client Chatbot with Cloud-Based Dialog API.
- More than 2000 interactions per Day.
- Full automation to interoperate with internal CAG API.
- Agile approach with Rapid Prototyping solutions.

Lead of Knowledge Graph Practice

- Creation of Knowledge Graph Practice in ASEAN.
- Expansion of the company offers in ASEAN through Knowledge Graph projects.
- Facilitator Knowledge Graph Workshops with existent clients and potential clients.
- Leading client adoption through PoC and interactive sessions.

Data Architect in Big Data Cloud Data Lake

- Modeling and creating the taxonomy associated with heterogeneous data (More than 8 Datasets and over 3 billions rows of data).
- Building data taxonomy and real-time cleaning, reconciliation, and conversion of the data.
- Building and Training Graph models to Knowledge Discovery.
- Architect of API services to allow end-users to extract and consume the data.

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 Aging in Place. [Semantic Reasoning](#); [Connected Objects](#); [Non Invasive Human Modeling](#); [Unsupervised Learning](#); [Rapid Prototyping](#)

Highlighted Project

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.
- 35 deployments in Singapore and France
- Scalable Cloud Solution (Cloud Deployment per Cluster)
- Multiple Publications in International Journals and Conferences

SKILLS



Native Speaker; Native Speaker; Bilingual; Full Competence



Cloud Technology: GCP; AWS; Watson; Datastax; Notebooks.

ML/DL: NLTK; Keras; 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.



Sportive, specially Football, and Barça fan. Cinema, Traveling.



- 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.

EDUCATION



PH.D. IN COMPUTER SCIENCE

Jul 2014 - Nov 2017

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

3 years Ph.D. Program in Computer Science.



MSC. IN TELECOMMUNICATIONS ENGINEERING

Feb 2012 - Sep 2013

ENS Telecom Bretagne, Brest, France

Double Master Degree program with TelecomBCN.



BSC AND MSC. IN TELECOMMUNICATIONS ENGINEERING

Sep 2005 - Jan 2012

TelecomBCN (ETSETB, UPC Barcelona Tech), Spain

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

CERTIFICATIONS

- **Ongoing Certification:** Google Cloud Professional Data Engineer (Projected Jan 2019)
- **Ongoing Certification:** Google Cloud Professional Cloud Architect (Projected Jan 2019)
- **Ongoing Certification:** AWS Solutions Architect (Projected Jan 2019)
- Google Cloud Platform Big Data and Machine Learning Fundamentals, Coursera, 2017
- Semantic Web Summer School, 2015
- Machine Learning, Coursera, 2014
- Semantic Web Technologies, OpenHPI, 2013

SELECTED PUBLICATIONS

- Kodyš, M., Oliver, P., **Bellmunt, J.**, Aloulou, H., Kaddachi, F. & Mokhtari, M. Smart Mobility in Urban Assisted Living Environments. In *IIWAS* ACM, 2017.
- Kodyš, 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.
- 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.
- **Bellmunt, J.**, Mokhtari, M., Abdulrazak, B. & Aloulou, H. Agile Framework for Rapid Deployment in Ambient Assisted Living Environments. In *IIWAS*. ACM, 2016.
- **Bellmunt, J.**, Mokhtari, M., Abdulrazak, B., Aloulou, H. & Kodyš, M. Experimental Frailty Model Towards an Adaptable Service Delivery for Aging People. In *Engineering of Complex Computer Systems (ICECCS)*. IEEE, 2016.
- [Google Scholar profile](#)