

# Joaquim Bellmunt Montoya, Ph.D.

*Technological innovator enabling context discovery and understanding.*

*NLP, Knowledge Graph, Linked Data,  
Cloud Technology and Internet of Things  
Business Ecosystem Growth, B2B Alliances.*

 Singapore  
 joaquim.bell@gmail.com  
 (+65) 81193783  
 joaquimbellmunt  
 joaquimbellmunt

## WORK EXPERIENCE

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### **ACCENTURE PTE., NLP & Knowledge Graph SME and ASEAN Partner Lead** Feb 2018 - Present



I have launched the regional Knowledge Graph practice to provide to the clients/partners the best data management and cloud capabilities. I lead the Natural Language Processing practice committing to the best quality standards.

Partners & Alliances Development, Knowledge Graph, Deep NLP, Semantic Web, Linked Data, Graph Analytics.

#### Knowledge Graph Practice Lead

- Launched the Knowledge Graph practice in ASEAN.
- Expanded the company offering in ASEAN through Knowledge Graph capabilities.
- Created internal literature and content to skill up in Knowledge Graph techniques.
- Led the client adoption through PoC and interactive sessions.
- Built partnership and alliances with KG market leaders.
- Facilitated business development and alliances between Clients-Partners.

#### Data Architect in Health Big Data Lake

- INTIENT project with 100+ persons globally.
- AWS counterpart and Knowledge Graph lead. (provided Neptune product enhancements).
- Led On-shore and Off-shore teams.
- Conducted workshops in global locations.
- Built and trained graph models for knowledge discovery.
- Built data taxonomy and real-time data cleaning, reconciliation, and conversion.

#### Technical Lead Chatbot Changi Airport Group

- Multi-Client Chatbot with Cloud-Based Dialog API.
- Watson technical and business counterpart.
- LivePerson technical and business counterpart (provided LiveEngage product enhancements).
- More than 2000 interactions per Day.
- Full automation to inter-operate with the internal Changi Airport Group APIs.

### **IMAGE AND PERVASIVE ACCESS LAB (CNRS UMI), Research Assistant** Jul 2014 - Nov 2017



3 years Ph.D. Student attachment in a CNRS Laboratory located in Singapore. The research was focused on building Non-Invasive Smart-homes for low-income elders with Impairment and disabilities.

Semantic Reasoning; Connected Objects; Ambient Assisted Living; Non-Invasive Human Frailty Modeling; Unsupervised Learning; Rapid Prototyping

#### 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

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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, especially 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

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### 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

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- **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

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- 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](#)