Vincent Emonet

Knowledge graph developer

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13/11/1991 – Driving License

Experiences

Since July 2018 — **Data science developer**,
Institute of Data Science, Maastricht University, Netherlands.
- Development of Data2Services, a framework to generate services out of structured data using semantically meaningful data model (Docker, Java): *github.com/MaastrichtU-IDS/data2services-ecosystem*
- Conversion of structured data, such as DrugBank and HGNC, to RDF to solve biomedical questions using SPARQL.
- Work on data representation and services generation to solve complex biomedical questions for the NCATS Biomedical Data Translator program
- Build RDF knowledge graphs to perform graph embeddings (bio2vec project)
- Published *Data2Services: enabling automated conversion of data to services* at SWAT4LS

October 2017 to June 2018 — **Conversational design engineer**,
Match Group, France.
- Involved in the development of a Natural Language Understanding (NLU) tool to build chatbots
- Designed conversational patterns using API.ai framework
- Analyzed conversations flow using tools like Google Analytics
- Managed the multilingual aspect and translations in 6 languages of the NLU tool developed
- Won the French 2018 Digital Innovation Award

January 2015 to July 2017 — **Computer science design engineer - Ontologies & Semantic Web**,
CNRS - Laboratory of Informatics, Robotics and Microelectronics of Montpellier, France.
- Administration and new features development on *bioportal.lirmm.fr* and *agroportal.lirmm.fr* platforms, used for ontology storage, exploration and text annotation (Ruby on Rails & Java): *github.com/sifrproject*
- Kept compatibility with main version of the NCBO BioPortal (tests)
- Packaged, integrated and documented Natural Language Processing programs, available at *advanse.lirmm.fr* (Java, AngularJS, Linux administration): *gite.lirmm.fr/advanse*
- Enhanced and packaged the YAM++ ontologies matching tool (Java): *gite.lirmm.fr/opendata*
- Developed a web interface for ontologies mappings validation (JEE) : *yamplusplus.lirmm.fr*

March 2014 to September 2014 & June 2013 to September 2013 — **Bioinformatics design engineer - Biomedical data processing**,
Université de Laval, Québec, Canada.
- Development of web services to access biomedical data in the RDF format for the *bio2rdf.org* project: *github.com/bio2rdf/bio2rdf-rest*
- Developed components for the Talend ETL for the Semantic Web (Java): *github.com/vemonet/talend4sw*
- Converting biomedical databases to RDF format (PubMed, neXtProt) using Talend ETL and Java
- Set up a Hortonworks Hadoop platform for Big Data

June 2012 to August 2012 — **Intern in bioinformatics in an ecology research laboratory**,
University of California, Berkeley, USA.
- Developed DNA sequence analysis programs using Python 2.7
- Set up an Amazon Web Service machine image based on Linux

Education

2012 – 2014 — **Master degree, Physiology, biotechnology and informatics**, *University of Poitiers, France*, Biotechnology.

2011 – 2012 — **Bachelor's degree, Bioinformatics**, *University of Poitiers, France*, Biotechnology specialization.

2009 – 2011 — **Technical College Diploma, Bioengineering**, *Toulon, France*, Biology and biochimistry analysis.

Publications

Platforms
- HAL: https://hal.archives-ouvertes.fr/search/index/q/*/authFullName_s/Vincent+Emonet
- Google Scholar: https://scholar.google.fr/citations?user=G59f3woAAAAJ
- dblp: http://dblp.uni-trier.de/pers/hd/e/Emonet:Vincent

IDS
- V. Emonet, A. Malic, A. Zaveri, A. Grigoriu and M. Dumontier, **Data2Services: enabling automated conversion of data to services**, 2018
- C. Jonquet et al., **AgroPortal: a vocabulary and ontology repository for agronomy**, *Computers and Electronics in Agriculture, vol. 144, p. 126-143*, 2018

Bio2RDF ○ M. Dumontier, A. Callahan, J. Cruz-Toledo, P. Ansell, V. Emonet, F. Belleau, A. Droit, **Bio2RDF Release 3: A larger, more connected network of Linked Data for the Life Sciences**. *International Semantic Web Conference*, 2014

Skills

Languages	Java, Ruby (on Rails), JavaScript, SQL, Python, Shell, LaTeX
Web	SPARQL, RDF, ontologies (OWL, SKOS, OBO, UMLS), RESTful API, Google Analytics, big data (Hadoop), JSON, XML, HTML, CSS
Tools	Git, Docker, Linux, RegEx, Talend ETL, Dialogflow, and Agile methodology
Biology	Notions in biotechnology, genetics, biochemistry and physiology

Languages

English	TOEIC Score 2014: 935. 5 months in the USA. Active participation in discussion, reading and writing documents
Spanish	Basic notions for communication

References

Maastricht University
Michel Dumontier,
Professor of Data Science
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LIRMM lab
Computer science researchers
○ Clément Jonquet (jonquet@lirmm.fr)
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○ Jérôme Azé (jerome.aze@lirmm.fr)

Bio2RDF project
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