

# Yoan Chabot

AI Researcher - Project Manager

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Birth: 10th March 1988



I am a researcher at Orange Labs Belfort since 2014. My research focuses on the use of knowledge engineering and machine learning for data management. I am leading several research and anticipation projects (15+ collaborators) to propose solutions to semantically annotate tabular data and to leverage these annotations in search and recommendation use cases.

## TRAINING

- 2012–2015 **PhD in Computer Science**, University College Dublin/University of Burgundy, *Reconstruction of events linked to a digital incident for forensic purposes. My research proposes a new approach to construct semantically enriched incident chronologies from voluminous and heterogeneous data sources and analyse them.*
- 2011–2012 **Master Research Degree in Computer Science**, University of Burgundy, Grade 16.3, Ranking 1/11.
- 2010–2011 **Master Degree in Computer Science, 1st year**, University of Burgundy, Grade 17.2, Ranking 1/58.
- 2009–2010 **Licence in Computer Science**, University of Burgundy, Grade 15.7 Ranking 2/69.
- 2007–2009 **Technical University Diploma in Computer Science**, University of Burgundy.

## SKILLS

- Project management Management of 3 research and 1 anticipation projects for 7 years. Roadmap and budget creation, resource management and task tracking, communication. Good leadership with strong strategic vision and organisational skills. Good knowledge of the path from research to product development
- Knowledge engineering Knowledge representation (description logic, RDF/RDFS, OWL), Ontology manipulation (SPARQL, Protégé, Python APIs), Data persistence (Virtuoso)
- Machine learning Use of machine learning and deep learning techniques for research purposes. Orange Data Science training program at Polytechnic Institute of Paris (120h training + professional project)
- Cybersecurity Extraction and analysis of heterogeneous logs, knowledge representation for forensics, event correlation
- Programming
  - Python
  - French Native language
  - English Intermediate level, good skills for scientific and technical reading/writing, 14-month stay in Dublin, several short stays in foreign countries for international conferences

## PAPERS

Selection from [scholar.google.com/citations?user=QKcqdfoAAAAJ&hl=en](https://scholar.google.com/citations?user=QKcqdfoAAAAJ&hl=en)

### Prizes

- ISWC 2021 **1st prize (Accuracy Track)**, In Semantic Web Challenge on Tabular Data to Knowledge Graph Matching 2021, [www.cs.ox.ac.uk/isg/challenges/sem-tab/2021/index.html](http://www.cs.ox.ac.uk/isg/challenges/sem-tab/2021/index.html).

ISWC 2020 **3rd Prize**, In Semantic Web Challenge on Tabular Data to Knowledge Graph Matching 2020, [www.cs.ox.ac.uk/isg/challenges/sem-tab/2020/index.html](http://www.cs.ox.ac.uk/isg/challenges/sem-tab/2020/index.html).

### International Conferences

ISWC 2021 **Viet-Phi Huynh, Jixiong Liu, Yoan Chabot, Frédéric Deuzé, Thomas Labbé, Pierre Monnin and Raphaël Troncy**, *DAGOBAB: Table and Graph Contexts For Efficient Semantic Annotation of Tabular Data*, In Semantic Web Challenge on Tabular Data to Knowledge Graph Matching 2021, 20th International Semantic Web Conference, remote, USA.

ISWC 2021 **Yoan Chabot, Pierre Monnin, Frédéric Deuzé, Viet-Phi Huynh, Thomas Labbé, Jixiong Liu and Raphaël Troncy**, *A Framework for Automatically Interpreting Tabular Data at Orange*, In Industry Track, 20th International Semantic Web Conference, remote, USA.

ISWC 2020 **Viet-Phi Huynh, Jixiong Liu, Yoan Chabot, Thomas Labbé, Pierre Monnin and Raphaël Troncy**, *DAGOBAB: Enhanced Scoring Algorithms for Scalable Annotations of Tabular Data*, In Semantic Web Challenge on Tabular Data to Knowledge Graph Matching 2020, 19th International Semantic Web Conference, Athens (remote), Greece.

IC 2020 **Yoan Chabot, Thomas Labbé, Jixiong Liu and Raphaël Troncy**, *DAGOBAB : Un système d'annotation sémantique de données tabulaires indépendant du contexte*, In Ingénierie des Connaissances 2020 (IC2020), Angers (remote), France.

ISWC 2019 **Yoan Chabot, Thomas Labbé, Jixiong Liu and Raphaël Troncy**, *DAGOBAB: An End-to-End Context-Free Tabular Data Semantic Annotation System*, In Semantic Web Challenge on Tabular Data to Knowledge Graph Matching 2019, 18th International Semantic Web Conference, Auckland, New Zealand.

### Journal Papers

Digital Investigation 2015 **Chabot Yoan, Aurélie Bertaux, Christophe Nicolle, and Tahar Kechadi**, *An Ontology-Based Approach for the Reconstruction and Analysis of Digital Incidents Timelines*, In Digital Investigation, Special Issue on Big Data and Intelligent Data Analysis, 15, pages 83-100.

Digital Investigation 2014 **Chabot Yoan, Aurélie Bertaux, Christophe Nicolle, and Tahar Kechadi**, *A complete formalized knowledge representation model for advanced digital forensics timeline analysis*, In Digital Investigation, 11, pages 95-105.

### PhD Thesis

Thesis 2015 **Chabot Yoan**, *Construction, Enrichment and Semantic Analysis of Timelines: Application to Digital Forensics*.

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## OTHERS ACTIVITIES

Supervision Supervision of two PhD students and three interns in the last few years

Reviewer Program committee member and reviewer in Digital Investigation since 2016, Computers & Security since 2018, Expert Systems with Applications since 2015, EGC since 2021, ESWC since 2020, K-CAP since 2019

Algorithmic Regular participations in algorithmic and programming contests. "Meilleur développeur de France" in 2018 and 2019 (finalist), ACM contests, etc.