

# Yoan Chabot

AI Researcher - Project Manager

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Birth: 10th March 1988



I am a researcher at Orange Labs Belfort since 2015. My research focuses on the use of knowledge engineering and machine learning for data management. I am leading several research and anticipation projects to propose solutions to 1) semantically annotate tabular data and to leverage these annotations in search and recommendation use cases and 2) build knowledge graphs from heterogeneous sources.

## ORANGE CAREER

- 2018–now **Research and Anticipation project manager**, DAGOBAD, *Creation of a research project on semantic annotation of tables using knowledge graphs in 2018. Research + management of a team of 15 collaborators. Creation of an anticipation project to valorise the research work in 2020.*
- 2015–now **Anticipation project manager**, NORIA, *Creation of a research project on anomaly detection using knowledge graphs in 2015. Creation of an anticipation project to valorise the research work in 2023.*
- 2015–2019 **Research project manager**, Dataforum, *Creation of Dataforum, a dataset marketplace providing semantic search functions. Research + management of a team of 10 collaborators. Technology transfer of the platform in 2019.*

## 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 at Polytechnic Institute of Paris (120h training + project)
- Cybersecurity 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

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## PAPERS

Selection from [scholar.google.com/citations?user=QKcqdf0AAAAJ&hl=en](https://scholar.google.com/citations?user=QKcqdf0AAAAJ&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

ESWC 2022 **Christophe Sarthou-Camy, Guillaume Jourdain, Yoan Chabot, Pierre Monnin, Frédéric Deuzé, Viet-Phi Huynh, Jixiong Liu, Thomas Labbé and Raphaël Troncy**, *DAGOBAH UI: A New Hope For Semantic Table Interpretation*, In 19th European Semantic Web Conference, ESWC2022, Hersonissos, Greece.

TheWebConf 2022 **Lionel Tailhardat, Raphaël Troncy and Yoan Chabot**, *Walks in Cyberspace: Improving Web Browsing and Network Activity Analysis with 3D Live Graph Rendering*, In Web Developer and W3C Track, TheWebConf2022, remote, France.

ISWC 2021 **Viet-Phi Huynh, Jixiong Liu, Yoan Chabot, Frédéric Deuzé, Thomas Labbé, Pierre Monnin and Raphaël Troncy**, *DAGOBAH: 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**, *DAGOBAH: 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.

### 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 comitee member and reviewer in Digital Investigation, Computers & Security, Expert Systems with Applications, Journal of Web Semantics, TheWebConf, ESWC, K-CAP, EGC

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