



Hugo Mougard

Experience

- 01/20–current **Machine Learning Consultant**, *Freelance*, Nantes, France
Consultancy & training in ML (including NLP, NLU and CV), MLOps & Python.
- 08/18–01/20 **Senior Machine Learning Engineer**, *source[d]*, Nantes, France
Empower developers by producing data-aware tooling.
- 03/17–08/18 **Machine Learning Consultant**, *Freelance*, Nantes, France
ML, NLP, NLU and CV consultancy & training.
- 10/16–02/17 **Deep Learning Engineer**, *CogniTalk*, Nantes, France
NLP and NLU engineering.
- 09/14–09/16 **Ph.D. Student**, *University of Nantes*, Nantes, France
Research multimodal content alignment using deep learning (CV, NLP and NLU research).
- 03/14–08/14 **Research Intern**, *National Institute of Informatics*, Tokyo, Japan
Simplify text automatically (NLP research).
- 04/13–07/13 **Research Intern**, *Dublin City University*, Dublin, Republic of Ireland
Retrieve information in medical records (NLP research).
- 04/12–07/12 **Research Intern**, *University of Nantes*, Nantes, France
Study and organize grammatical inference literature and code (NLP research).

Education

- 2014–2016 **Ph.D. in Computer Science**, *University of Nantes*, Nantes, France, **undefended**
Research ways to align multimodal content with deep learning.
- 2012–2014 **M.Sc. in Computer Science**, *University of Nantes*, Nantes, France
Specialization in Machine Learning & Natural Language Processing
- 2009–2012 **B.Sc. in Computer Science**, *University of Nantes*, Nantes, France

Research Interests

My research interests are centered around natural language processing, natural language understanding and machine learning on code.

Software

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Frameworks	Good knowledge and experience in several machine learning and natural language processing frameworks: PyTorch, DGL, sklearn, bigARTM, Stanford CoreNLP, Gensim, UIMA (non-exhaustive)
Programming languages	Language agnostic with more experience in Python, Java and Bash.

Publications

International Conferences

- [1] Vadim Markovtsev, Waren Long, Hugo Mougard, Konstantin Slavnov, and Egor Bulychev. Style-analyzer: Fixing code style inconsistencies with interpretable unsupervised algorithms. In *Proceedings of MSR*, 2019.
- [2] Florian Boudin, Hugo Mougard, and Benoit Favre. Concept-based summarization using integer linear programming: from concept pruning to multiple optimal solutions. In *Proceedings of EMNLP*, 2015.

International Workshops

- [3] Waren Long, Vadim Markovtsev, Hugo Mougard, Egor Bulychev, and Jan Hula. Identifying collaborators in large codebases. In *Proceedings of ML4SE (MSR-Colocated Workshop)*, 2019.
- [4] Florian Boudin, Hugo Mougard, and Damien Cram. How document pre-processing affects keyphrase extraction performance. In *Proceedings of COLING (WNUT Workshop)*, 2016.
- [5] Hugo Mougard, Matthieu Riou, Colin De La Higuera, Solen Quiniou, and Olivier Aubert. The paper or the video: Why choose? In *Proceedings of WWW (SAVE-SD Workshop)*, 2015.

Technical Reports

- [6] Lorraine Goeuriot, Liadh Kelly, Johannes Leveling, Hugo Mougard, Gareth Jones, Pavel Pecina, and Jan Hajič. Report on query expansion techniques. In *Khresmoi Project Public Deliverable*, 2014.

Workshops

- [Understand your code with Machine Learning on Source Code](#), DevFest Nantes, 2019.
- [The Deep Learning Codelab](#) (French), DevFest Nantes, 2017.
- [Linear & Logistic Regression](#) (French), Nantes Machine Learning Meetup, 2015.

Talks

2021

- [AlphaGo: Solving Go with Machine Learning](#) (French), Nantes Jules Verne High School.

2020

- [Let's get acquainted with Transformers](#) (French), Nantes Machine Learning Meetup.

2019

- [Overton, Apple-flavored ML](#) (French), Nantes Machine Learning Meetup.

- Tech & Environmental Collapse, source{d} Meetup.
- Machine Learning for Large Scale Code Analysis, KTH TCS Seminar.

2018

- Bootstrapping Machine Learning on Code with Ideas from NLP, GOTO Nights Copenhagen.
- Ins and Outs of Machine Learning (French), Data Science and Machine Learning Special, ENI.

2017

- Generative Adversarial Networks, a New Paradigm to Train ANNs (French), Nantes Machine Learning Meetup.

2016

- Artificial Intelligence: How Google Defeated One of the Best Go Players (French), Nantes University Public Conference.
- Solving Go with Machine Learning (French), PhD Society (LOGIN) Talk.
- Neural Programming (French), Nantes Machine Learning Meetup.

2015

- Sequence to Sequence Learning with Neural Networks (French), Nantes Machine Learning Meetup.

Languages

French	Mother tongue
English	Expert
Spanish	Good reading comprehension
Japanese	N3 / B1 level