

Guillaume Le Berre

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SKILLS

PROGRAMMING

Proficient:

Python • Pytorch • C • C++
Latex • Linux • Windows • Git

Familiar:

Tensorflow • Java • OCaml
Javascript • CSS • HTML

LANGUAGES

English • French • Japanese

COURSEWORK

GRADUATE

Advanced Software Engineering
Advanced Machine Learning
Machine Learning
Algorithms
Data Structures
Foundation of Computing
Malware & Security
Compilers
Computer Networks
Web Development
Management

UNDERGRADUATE

Mathematics
Computer Science
Physics
Chemistry

LINKS

Facebook: [gleberre](#)
Github: [Guilleber](#)
LinkedIn: [guillaume-le-berre](#)
Personal website

EDUCATION

UNIVERSITY OF MONTREAL & UNIVERSITY OF LORRAINE

| PHD IN COMPUTER SCIENCE

Oct 2018 - Dec 2022 | Montreal, QC, Canada | GPA: 3.85

- French-Canadian co-supervised PhD degree.
- Study solutions (including regularization and data augmentation) to make **Deep Learning** methods more resistant to biases in data with applications to **Natural Language Processing** (Optical Character Recognition and Question Answering).

MINES DE NANCY | MENG IN COMPUTER SCIENCE

Sep 2015 - Sep 2018 | Nancy, France | GPA: 3.38

- Took a wide variety of software engineering oriented courses (see Coursework) featuring various programming languages including **Python**, **C/C++** and **Java**.
- Double MSc Degree in **Natural Language Processing**.

UNIVERSITY OF RENNES | BS IN ENGINEERING

Sep 2013 - Jun 2015 | Rennes, France

EXPERIENCE

UNIVERSITY OF MONTREAL | 3X TEACHING ASSISTANT C & C++

Jan 2019 - Dec 2019 | Montreal, QC, Canada

- In charge of **C** and **C++** practical classes with a group of 20 to 40 students.
- My role included presenting the exercises, answering questions, debugging and grading student's assignments.

LORIA | RESEARCH INTERN

Feb 2018 - Aug 2018 | Nancy, France

- Conducted research on ways to improve variability of deep learning models on text summarization task using among others **VAEs** and **GANs**.

JAIST | RESEARCH INTERN

Jun 2017 - Aug 2017 | Nomi, Japan

- Worked on a new proof of the well-quasi orderness of the minor relation over graphs.

LEADERSHIP

ANIM'EST ASSOCIATION | VOLUNTEER

Sep 2016 - Sep 2017 | Nancy, France

- In charge of beforehand preparation and onsite oversight of catering services for a 2-day event attracting more than 7000 visitors (2000+ meals).
- Managed and trained a 40-person team to cover food preparation and sale.

PUBLICATIONS

- [1] G. L. Berre and P. Langlais. Attending knowledge facts with bert-like models in question-answering: Disappointing results and some explanations. In *Canadian Conference on Artificial Intelligence*, 2020.
- [2] G. Le Berre and C. Cerisara. Seq-to-nseq model for multi-summary generation. In *ESANN*, 2020.
- [3] G. Le Berre, C. Cerisara, P. Langlais, and G. Lapalme. Unsupervised multiple-choice question generation for out-of-domain Q&A fine-tuning. In *ACL*, 2022.