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 - Sep 2022 | Montreal, QC, Canada
- 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
- 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 C. Cerisara. Seq-to-nseq model for multi-summary generation. *ESANN*, 2020.

[2] G. L. Berre and P. Langlais. Attending knowledge facts with bert-like models in question-answering : disappointing results and some explanations. *Canadian AI*, 2020.

[3] C. Cerisara, P. Caillon, and G. L. Berre. Unsupervised post-tuning of deep neural networks. *IJCNN*, 2021.