

Clément Poiret

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ABOUT ME

I am a Master student at the University of Rouen in seeking to knowledge in Data Sciences, Mathematics, Neurosciences, and more specifically in Machine Learning and Deep Learning. I like taking every opportunity to build skills and satisfy my curiosity. In my free time, I like to share my interests, most recently on medium.com/the-science-thinker

SKILLS

GENERAL

Machine & Deep Learning • Scalable Data Science • Reinforcement Learning • Programmation • Training and Performance Optimisation • Human Anatomy & Physiology • Scientific Research

SOFTWARES/LIBRARIES

PyTorch • TensorFlow • Visual Studio (Code) • Jupyter • Adobe CC Suite • IntelliJ IDEA • \LaTeX • RStudio

PROGRAMMING

Advanced: Python • R • Julia

Intermediate: C# • Java •

Dart/Flutter

Beginner: C++17

JOBS

- **2019: Entrepreneur**
Provision of computer and communication services,
- **2016-2018: Coach** (Mens Gymnastics),
- **2016-2018: VP Com., Treasurer**
(sports association)

LATEST PROJECTS

1. U-Net for Brain Tumor Segmentation
2. Multi-Output R-CNN for Gender and Age Prediction,
3. 10-Years Coronary Heart Diseases (t-SNE, DBSCAN, SOM),

CURRENTLY READING

Deep Medicine, *Eric Topol*

DIPLOMAS ET CERTIFICATIONS

Authenticity URLs of certificates available on LinkedIn, section "Licensing and certifications".

UNIVERSITÉ DE ROUEN | MSc GAMES ANALYTICS AND BIG DATA, WITH HONORS

Sep 2018 - Jun 2020 | Rouen, FR

DEEPLARNING.AI | AI FOR MEDICINE SPECIALIZATION

Apr 2020 - now

- Deep Learning for CT Scans Analysis,
- Automatic Hippocampus Segmentation (antero-posterior),
- U-Net for Brain tumors segmentation.

HSE UNIVERSITY | BAYESIAN METHODS FOR MACHINE LEARNING

Mar 2020 - now

DEEPLARNING.AI | DEEP LEARNING SPECIALIZATION

Jan 2020 - Jun 2020

SUPERDATASCIENCE | COMPUTER VISION & TENSORFLOW 2.0

Nov 2019 - Mar 2020

- Deep Learning and Computer Vision A-Z™,
- TensorFlow 2.0 Practical Advanced.

ANGELA YU & GOOGLE FLUTTER TEAM | FLUTTER DEVELOPMENT WITH DART

Jan 2020 - now

SUPERDATASCIENCE | DEEP & REINFORCEMENT LEARNING

Aug 2019 - now

- Deep Learning A-Z™,
- Artificial Intelligence A-Z™.

ALBERTA MACHINE INTELLIGENCE INSTITUTE | OPTIMIZING MACHINE LEARNING MODEL PERFORMANCE

Nov 2019 - Feb 2020

IBM | ADVANCED DATA SCIENCE SPECIALIST

May 2019 - Dec 2019

JOHN HOPKINS UNIVERSITY | NEUROSCIENCES

May 2019 - Aug 2019

- Introduction to Neurohacking in R,
- Fundamental Neuroscience for Neuroimaging.

SANTA FE INSTITUTE | COMPLEXITY EXPLORER

Jan 2019 - May 2019

- Nonlinear Dynamics: Mathematical and Computational Approaches,
- Fractals and Scaling.

HARVARDX | USING PYTHON FOR RESEARCH

Nov 2018

COURSES TAKEN AS A SELF-TAUGHT AUDITOR

MIT 6.S191 | INTRODUCTION TO DEEP LEARNING

Jan 2020 - Feb 2020

- ANN, RNN, CNN, Deep Generative Modeling, Deep Reinforcement Learning,
- Deep Learning Limitations and New Frontiers,
- Visualization for Machine Learning, ML for Scent (Google Brain),
- Biologically Inspired Neural Networks, Neurosymbolic Hybrid AI (IBM),
- Image Domain Transfer, General Autonomy in Robotics (NVIDIA),
- Neural Rendering (Lambda Labs).

GOOGLE DEEPMIND | ADVANCED DEEP LEARNING

Jan 2020 - Feb 2020

- Introduction to ML-based AI and TensorFlow,
- Neural Network Foundations,
- Beyond Image Recognition, End-to-End Learning, Embeddings,
- Optimization for Machine Learning,
- Deep Learning for NLP,
- Attention and Memory in Deep Learning,
- Unsupervised Learning and Generative Models.

INTERNSHIPS

INSERM/CEA | NEUROSCIENCES

Mar 2020 - Mai 2020

- Machine & Deep Learning,
- rs-fMRI Processing & Analysis,
- fMRI classification & regression through Deep Learning.

CETAPS | DATA MINING

Feb 2019 - Jun 2019

- Feature Engineering,
- Pattern Detection in Free Diving.

ROUEN HOCKEY ELITE 76 | TRAINING AND PERFORMANCE

OPTIMIZATION

Sep 2017 - May 2018

- Coaching Ice Hockey players from beginner to elite, from 7 to 20+ years old.,
- Games Analytics and Performance Optimization.

MASTERS THESIS

MASTER 2 | NEUROIMAGERY & MACHINE LEARNING

2020

- Explainable AI for functional connectivity assessment of episodic memory,

MASTER 1 | NEUROSCIENCES, MOTOR CONTROL

2019

- Multifractal Approach to Expertise in Men's Artistic Gymnastics.

POTENTIAL REFEREES

- Noulhiane Marion, PhD, HDR,
marion.noulhiane@parisdescartes.fr,
- Lemaître Frédéric, PhD, HDR,
frederic.lemaitre@univ-rouen.fr,
- Iodice Pierpaolo, PhD, HDR,
pierpaolo.iodice@univ-rouen.fr.

HOBBIES

READING

I like to read, especially books of Science, Philosophy, Epistemology, and Personal Development. The book that influenced me the most? I'm torn between *Brief Answers to the Big Questions* by the brilliant Stephen Hawking, and Scott E. Page's *The Model Thinker*.

SPORTS

I started Shotokan Karate-Do at the age of 6 and I've got my first Dan when I was 15. For almost 8 years, several hours a week I have been practicing handbalancing, Acrobatic Gymnastics, and Men's Artistic Gymnastics.

PROGRAMMING

I started programming in VB.Net when I was 9 or 10 years old with a friend, first to have fun as an amateur. Thanks to Udacity and Google, and having been selected during my first Bachelor's year to take the *Google Android Developer Scholarship*, I was able to discover the joys of programming (Android in Java) in an industrial production environment. Since a little more than a year, I have discovered a passion for mathematical approaches and computational analysis of complex systems with Santa Fe Institute's *Complexity Explorer*. Naturally, I became interested in the exciting world of Deep Learning, and more broadly Artificial Intelligence.

What an interesting time to be alive!

LEARNING

I love to learn. To tell you the truth, a day without learning at least one new thing is not a good day. Some would say I'm a workaholic, I'd say I know what I want. I like to sign up for courses that are offered on the Internet by the largest companies and universities. This gives me the opportunity to learn from the best specialists in different fields, at my own pace and, above all, at any time of the day! When I'll have more time, I would like to take courses in quantum mechanics and astrophysics, just to satisfy my curiosity about these worlds of bewildering alterity.

PUBLICATIONS

BREATH-HOLD DIVING STRATEGIES: TURTLE OR RABBIT? |
SPORTS BIOMECHANICS
May 2020 (submitted)

COMMUNICATIONS

POSTER | MASTER'S THESIS
CJC-SCO 2020
Canceled due to Covid-19

**PRESENTATION | GOALS AND
RESULTS OF THE INTERNSHIP**
InDEV Meeting