

Ravi Hassanaly

Doctoral candidate at Paris Brain Institute, working on deep learning applied to medical imaging.

Paris, France @ ravi.hassanaly@icm-institute.org +33(0)6 68 24 86 22
linkedin.com/in/rhassana @HassanalyRavi ravih18



WORK EXPERIENCE

Doctoral Candidate

Sorbonne Université - CNRS - Paris Brain Institute - ARAMIS Lab

November 2020 - On going Paris, FR

Pseudo-healthy neuroimage synthesis for anomaly detection in brain images using deep learning generative models: Python, Pytorch

- Several publications in international conferences.
- Software development: new pipeline for PET images processing in Clinica software. Maintainer and contributor of ClinicaDL: software for neuroimaging processing using deep learning: Git, Python, Nipype, Pytorch
- Teaching experience: Teaching Python at Sorbonne Université. Lab session lecturer on deep learning for medical imaging at ENS Paris-Saclay

Deep Learning Research Internship

Paris Brain Institute - ARAMIS Lab

April 2020 - Septembre 2020 Paris, FR

Synthesis of pseudo-healthy brain greymatter maps for detection of anomalies using Auto-Encoders : Python, Pytorch

Data Science Internship

Upfluence

March 2019 - August 2019 Lyon, FR

Data science for social media marketing:

- NLP on social media data: Gensim, nltk, word2vec.
- Influencers classification: Scikit-Learn, XGBoost.
- Recommendation algorithms: Collaborative Filtering, LightFM.

EDUCATION

Engineering Degree

Centrale Lyon Engineering School

September 2016 - October 2020 Lyon, FR

Generalist engineering classes with specialisation in computer science and IT

- Courses: Mathematics (Statistics, optimization...), Deep Learning, Computer Vision, Signal Processing, Control System, Electronics, Network engineering...
- Centrale Digital Lab: Intensive training about digital technologies (AI, Deep Learning, Computer Vision, Web Development, Data Visualization)

Master of Data Science

Université Claude Bernard


September 2019 - October 2020 Lyon, FR


Short term international Student program

Keio University, Faculty of Science and technology

April 2018 - August 2018 Tokyo, JP

LANGUAGES

 **French**
Native Speaker


 **English**
Fluent: TOEFL 517/577

 **Hindi**
Spoken

 **Japanese**
Beginner


SOFTWARE SKILLS


 **Python**
Expert

 **Data Science: Scikit-learn, Pandas, Scipy, Numpy**
High level

Deep learning: Pytorch, CUDA
High level


 **Neuroimaging: FSL, ANTS, NIPY**
Good level


 **Linux, macOS, Windows**
High level


 **Git, Bash, Slurm**
Good level


 **HTML, CSS, Django, Flask**
Intermediate


INTERESTS

 **Music Enthusiast**
Bass player in the school Brass Band

 **Waterpolo**
Winner of the "Challenge Tournament" at Lyon

 **Football, Volleyball**
Several years of club

 **Maker & Curious**
Passionate about computer science, robotics, and medical science

 **Volunteering**
Member of the Ajités, Association of the young researchers of the Paris Brain Institute