

Warith HARCHAOUI

✉ warith.harchaoui@gmail.com • 🌐 harchaoui.org/warith

Machine Learning Ph.D. Student

Education

- **Université Paris-Descartes** **Paris**
○ *Ph.D in Machine Learning supervised by Pr. Charles BOUVEYRON* *Sep. 2016 - Today*
Model-Based Deep Learning for Large Scale Clustering
- **École Normale Supérieure de Cachan** **Cachan, near Paris**
○ *Master 2 in Mathematics, Vision and Learning (MVA)* *Sep. 2007 - Mar. 2008*
With Honors
- **École Nationale Supérieure d'Électricité, Supélec** **Gif-sur-Yvette, near Paris**
○ *Engineering School* *Sep. 2004 - Mar. 2010*
Without diploma for health reasons
French "Grande école d'ingénieurs" majoring in Signal Processing
- **Collège Stanislas** **Paris**
○ *Preparatory Classes* *Sep. 2002 - Jun. 2004*
Mathematics and Physics
French "Classes Préparatoires" highly selective scientific institution

Work Experience

- **Oscaro.com** **Paris**
○ *Data Scientist* *Jul. 2014 - Today*
Built a credit card anti-fraud system, clients segmentation for marketing, supply chain forecasts and also maintained qualitative and quantitative data analyses in **Python, Java** and **SQL/BigQuery**
- **Aldebaran Robotics (now in SoftBank Group)** **Paris**
○ *Intern* *May 2009 - Sep. 2009*
Designed an image recognition software on a non-energy intensive mobile robot in **Python** and **C/C++/OpenCV**
- **Philips Healthcare** **Suresnes, near Paris**
○ *Intern* *Apr. 2008 - Aug. 2008*
Studied medical image registration, segmentation, compression and denoising in **Matlab** and **C/C++**
- **Centre for Computational Biology, Mines ParisTech** **Fontainebleau, near Paris**
○ *Intern* *Aug. 2005*
Created a distributed garbage collector in **C#** inside the NGrid framework
<https://www.openhub.net/p/ngrid>

Skills

- **Languages:** English (fluent), French (mother tongue)
- **Programming Languages:** Python (Tensorflow, Scikit-learn), Java, Matlab, C/C++ (OpenCV)
- **Computer Sciences:** Machine Learning, Computer Vision, Signal Processing, Numerical Optimization

Scientific Communications

- *Deep Adversarial Gaussian Mixture Auto-Encoder for Clustering.* Warith HARCHAOUI, Pierre-Alexandre MATTEI and Charles BOUVEYRON,
StatLearn 2017 Workshop Poster (Lyon, France)
- *An Introduction to Neural Networks.* Warith HARCHAOUI
Young Statisticians and Probabilists 2018 (Institut Henri Poincaré, Paris, France)
<https://bit.ly/2Hu1aBF>

Comments

Between 2006 and 2014, I had severe medical problems. Today, as I proudly limp on my own two feet, my “disabled status” is officially certified in France.

Leisures

- **Lyrical Singing:** More than 8 years of practice with regular shows around Paris
- **Acting:** Successfully passed the intensive pre-school exam of Cours Florent in Paris