

# Baptiste Bauvin

## Machine Learning PhD,

GRAAL - ULaval - 2022

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### Experience

#### Academic

- 2017-2023 **Machine Learning PhD**, *GRAAL-Santé*, QC , Canada.  
Multi-omic machine learning and interpretable algorithms.  
Focus on ensemble methods, from PAC-Bayesian theory to applications to biological multi-omic tasks and multi-view framework coding.
- Summer 2016 **Machine learning research internship**, *GRAAL*, QC, Canada.  
2016 Developing a multi-omic binary classifier based on the SCM. Graded A.
- Winter 2016 **Research project**, *École Centrale Marseille (ECM)*, Marseille, France.  
Analysis of two multi-view algorithms, Mumbo and MVM. Graded A.
- Summer 2015 **Robotics vision research internship**, *ACIN/V4R*, Vienna, Austria.  
2015 Providing a path-finding algorithm for a mobile robot, based on laser and *kinect* sensors.
- Summer 2014 **Machine learning research internship**, *LIF*, Marseille, France.  
2014 Building a multi-class classification algorithm based on SVMs for vocal recognition. Graded A.
- Winter 2013 **Research project**, *École Centrale Marseille (ECM)*, Marseille, France.  
Study of  $\Gamma$ -free matrices and Bunneman graphs for species classification. Graded A.
- 2012-2013 **Transversal project**, *École Centrale Marseille (ECM)*, Marseille, France.  
Mesh network building for pollution sensors based on Arduino boards, shared on a website. Graded A.
- Summer 2013 **Production internship**, *Belle-de-Mai Incubator*, Marseille, France.  
2013 Audit, debugging update of the incubator's internal management software. Graded A.

#### Volunteering

- 2014 **President & Webmaster**, *Phy-TV*, ECM, Marseille.  
School's audiovisual association : video editing, FX, event planning, external contracts.
- 2014-2015 **Active Member and Regisseur**, *Bureau des Arts*, ECM, Marseille.  
Regisseur during on scene events, and active member
- 2013-2014 **Webmaster**, *Festival Massiliades*, ECM, Marseille.  
Website management based on DRUPAL and HTML5/CSS/PHP/MySQL.

#### Other

- 2014-2015 **Web-designer & software engineer (Front & Back-End)** , *KSI*, ECM, Marseille.  
Concept and development of a web-site for a client of the junior company

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### Formation

- 2015-2016 **Fundamental Computer Science Master**, *Aix-Marseille Université*, Marseille, France.  
Focus on : Inferential Statistics, Machine Learning, Logic and Automats, Algorithmic, Metric Spaces, Graphs and Networks Algorithmic.
- 2012-2016 **General Engineering Degree**, *ECM*, Marseille, France.  
Engineering Degree, focusing on : Fundamental Computer Science, IA, Telecommunications, Micro-controllers.  
Major in : Computer Science, Networks, Data Science, Android.
- 2010-2012 **Preparatory Class**, *Lycée Faidherbe*, Lille, France.  
Focus on Fundamental Computer Science in excellency boarding school.

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## Computer Science Skills

Python ML Scikit-learn, Pytorch, HDF5, Pandas, Numpy.  
Languages JAVA, C++, SQL, PYTHON, Caml, Maple, Matlab.  
Platforms OS X, GNU/Linux, Windows, Arduino, Android.  
Web PHP, HTML5, CSS3, JAVASCRIPT(JQuery), MySQL, Drupal.  
Others Any office suite, L<sup>A</sup>T<sub>E</sub>X.

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## Languages

Native French  
Professional English  
Advanced German (B2)  
Beginner Portuguese, Italian , Arabic.

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## Hobbies

Hands-on Construction, Electronics, Hardware, Mechanics, Sewing.  
Sports Dragon Boat, Hockey, Skiing, Dancing.  
Cultural Travelling (China, India, Egypt), Music (Tuba, Guitar, Bass, Drums), Cooking.