

# Luc GIFFON

## Ph.D. student in Machine Learning

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 Born the 2 of April 1994 in Marseille  Driver

Former biology student, I learned programming in a self-taught way during my first year of Master in Bio-Informatics. I then chose to specialize in computer science and in particular in Machine Learning. I have been accepted in the Master of Computer Science of Marseille-Luminy directly. Following this Master degree where I graduated in the top fourth of my class, I was awarded in the Master of Fundamental Computer Science, specialty in Machine Learning and Data Mining. I ranked third overall but first in Machine Learning. I was awarded a PhD fellowship on the subject of Kernel Methods with Deep Learning under the supervision of Hachem Kadri, Stéphane Ayache and Thierry Artières. I study both theoretically and experimentally how to gather and benefit from these two families of Machine Learning methods.

## Skills

Machine Learning	<b>Kernel methods, Deep learning</b>
Languages	<b>Python (tensorflow, sklearn, unittest, sqlalchemy)</b> , Java, SQL, php ( <b>laravel</b> ), html/css ( <b>bootstrap</b> ), LaTeX
Databases	MySQL, Oracle Database
Development tools	<b>pyCharm</b> , git, SQLdeveloper, Drupal, Eclipse
Autres	<b>Unified Modeling Language (UML), Object Oriented Programing (OOP)</b> , Data Modeling

## Professional Experience

2017, October to today	<b>Ph.D. : Research in Machine Learning : Kernel methods with Deep Learning</b> , Aix-Marseille Université - LIS - QARMA team, Marseille - France <ul style="list-style-type: none"><li>&gt; Supervisors : Hachem Kadri - Stéphane Ayache - Thierry Artières</li><li>&gt; Theoretical and experimental studies of deep learning algorithms and kernel methods.</li></ul> <span>Deep Learning</span> <span>Kernel methods</span> <span>Nyström</span> <span>Python</span>
2017, October to today	<b>Teaching of algorithmic and object oriented programing at École Centrale de Marseille</b> , École Centrale de Marseille, Marseille France <ul style="list-style-type: none"><li>&gt; Tutorials and practical works</li></ul> <span>Teaching</span> <span>Algorithmic</span> <span>Object Oriented Programing</span>
2017, May to today	<b>Volunteering : school accompaniment</b> , ESA Association, Marseille - France <ul style="list-style-type: none"><li>&gt; School accompaniment for students from primary school to high school</li></ul> <span>Studying help</span> <span>Sciences</span> <span>Accompaniment</span> <span>High school</span>
2017, February to 2017, July	<b>Internship : Machine Learning Research</b> , EURANOVA, Marseille - France <ul style="list-style-type: none"><li>&gt; Supervisors : Thomas Peel - Antoine Bonnefoy - Émilie Morvant</li><li>&gt; Study and improvement of EXPoSE, an anomaly detection algorithm. Our improvement consists in the use of the Nyström approximation with fast update to compute the update of the mean embedding vector.</li></ul> <span>Anomaly Detection</span> <span>Kernel methods</span> <span>Nyström</span> <span>Python</span>
2016, September to 2016, April	<b>Internship : Python programming</b> , Aix-Marseille Université - INSERM - TAGC, Luminy, France <ul style="list-style-type: none"><li>&gt; Supervisors : Aitor Gonzales - Lionel Spinelli</li><li>&gt; Modeling and Programing of a workflow manager with results stored in a Database</li></ul> <span>Python</span> <span>Object Oriented Programing</span> <span>scrum</span> <span>SQLAlchemy</span> <span>pyCharm</span> <span>sonarQube</span> <span>git</span>
2012, July and 2013, February	<b>Internship : Laboratory Technician</b> , Université de Strasbourg - IBMP, Strasbourg, France <ul style="list-style-type: none"><li>&gt; Supervisor : José Gualberto</li><li>&gt; Technical execution of biology experiments on <i>Arabidopsis thaliana</i> required by the researcher and results analysis</li></ul> <span>confocal microscopy</span> <span>PCR</span> <span>qPCR</span> <span>molecular cloning</span>

## A Languages

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French	● ● ● ● ●
English - Spoken	● ● ● ○ ○
English - Written	● ● ● ● ○

## 🎓 Scholarship

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from 2017	<b>Ph. D. in Machine Learning : Kernel methods with Deep Learning</b> - LIS - QARMA Team - Aix-Marseille Université (Ongoing)
2016 - 2017	<b>Master 2 in Fundamental Computer Science Specialty Machine Learning</b> - Luminy, Aix-Marseille Université
2015 - 2016	<b>Master 1 in Computer Science</b> - Luminy, Aix-Marseille Université
2014 - 2015	<b>Master 1 in Bio-Informatics</b> - Luminy, Aix-Marseille Université
2013 - 2014	<b>Bachelor in Cellular Biology</b> - Luminy, Aix-Marseille Université
2011 - 2013	<b>BTS Bio-Techonologies</b> - Lycée Jean Rostand, Université de Strasbourg
2011	<b>Scientific Baccalaureate option Physics</b>

## 🎮 Hobbies

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<b>climbing</b>	Usually on (In-door) boulders
<b>Skiing</b>	Usually multiple times a year
<b>Video Games</b>	FortniteBR, League of Legends, Counter-Strike
<b>Hacking</b>	Server Administration (Raspberry Pi), IT-Security, Programming
<b>Basket-Ball</b>	For leisure

## 👥 References

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**Thierry Artières** *Professor - LIS - QARMA*  
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**Hachem Kadri**, *Lecturer - LIS - QARMA*  
Ph.D. supervisor  
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**Stéphane Ayache**, *Assistant professor - LIS - QARMA*  
Ph.D. supervisor  
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**Thomas Peel, Ph.D.** *Director / Data Scientist - EURA NOVA - Marseille*  
Internship supervisor  
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**Lionel Spinelli**, *Research Engineer in Bio-Informatics*  
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