

Maël FABIEN

Data Scientist - Actuary
(22 years old)

Nationality: France, Luxembourg

+(00)33 7 87 20 40 33

mael.fabien@gmail.com

7 rue Barrault, 75013 Paris



<https://github.com/maelfabien>



<https://www.linkedin.com/in/mael-fabien/>



<http://maelfabien.fr>



- French (Mother Tongue)
- English (C2)
- German (B2)

Interests

- Statistics
- Machine Learning
- Actuarial Science
- Time Series
- Quantitative Finance
- Artificial Intelligence
- Data Visualization
- Design/Web
- Sports

Stack



Education

BSc. Economics
HEC Lausanne



2016

Statistics, Mathematics,
Economics

MSc. Actuarial Science
HEC Lausanne



2018

Risk modeling,
Stochastic Processes

MS Big Data
Telecom ParisTech



2019

Big Data Tools, Machine
Learning, Deep Learning

Experience



**09.2018 - 05.2019 : Affective Computing
Research Project at Telecom Paristech**

Research projet for the French employment center on multimodal **sentiment analysis**. Delivering state of the art models in Text, Sound and Video processing for sentiment analysis.



**02.2018 - 08.2018 : Actuary Intern in Non-Life
department, Vaudoise Insurance**

In charge of the **redesign** of a private Accident Insurance product. Market **analysis**, analysis of the current **portfolio** (structuring and extracting data (30K insured), statistical analysis, controlling for missing values, signaling incoherent manual entries), product **pricing** (MLE, **robustness** tests, profit testing, **simulations**).

Worked closely with the Subscription department. The pricing has been approved by the Actuarial Product Development Department. This internship lead to a **Master Thesis** and was awarded the **maximal grade** of 6/6.



Loomky 2016 - 2018 : Entrepreneurial Projects

Jury Prize winner of the Entrepreneurial Contest Start Lausanne after a 6 months competition among 65 startups. I have worked 2 years on Wanago, a specialized crowdfunding platform, and I am now working on Loomky, a **digital rental solution** for car dealerships. **Test** phases on 8 dealerships. Partnerships with **Vaudoise** Insurance and BYmyCAR.

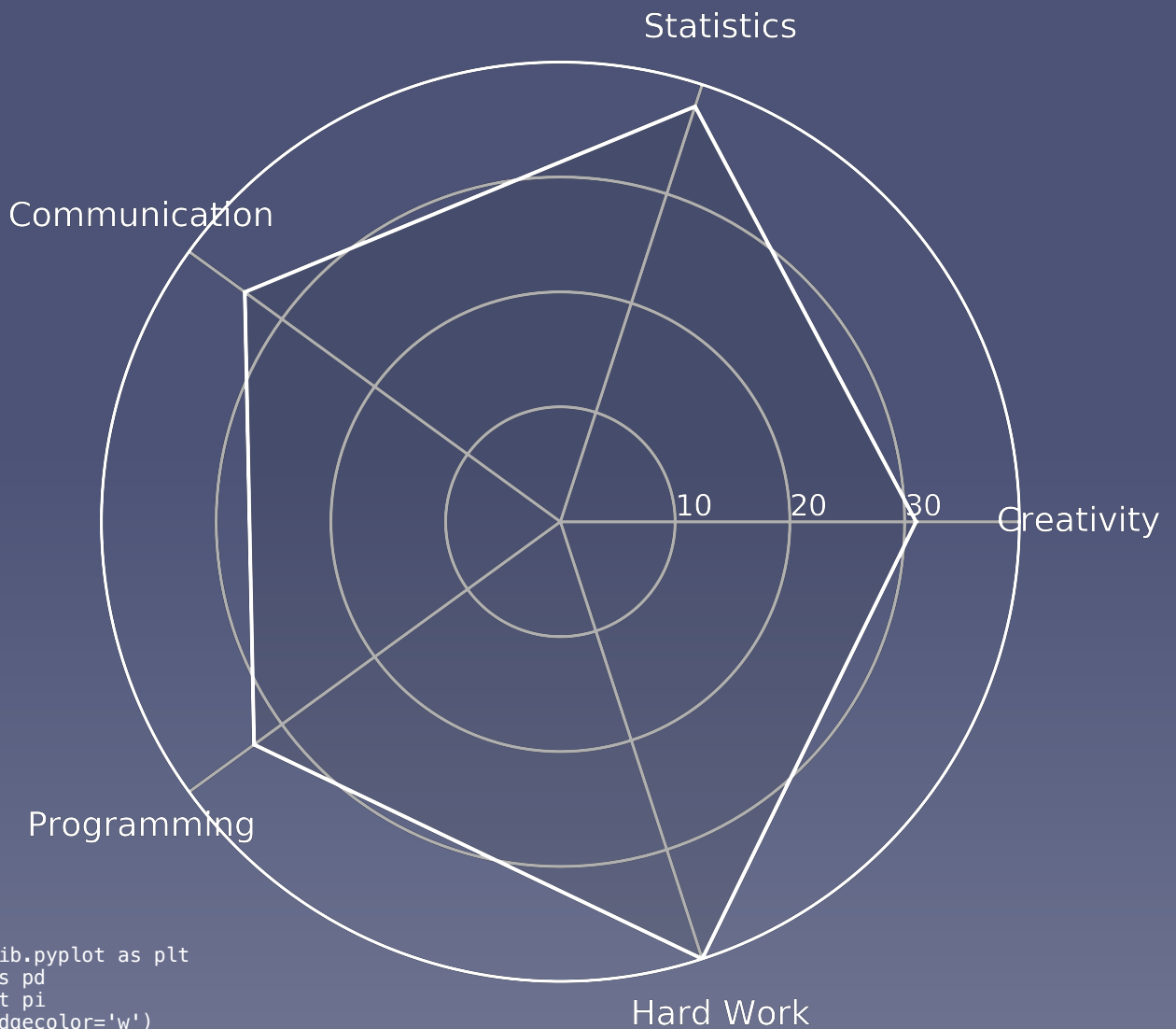


**09.2016 - 03.2018 : Teaching Assistant in
Corporate and Public Finance**

Assisted Professor Nikolov and then Professor Soguel for the 3rd year Bachelor course of **Corporate Finance and Public Finance**. This was a **40%** position on the side of my studies.

Projects

- A geolocation ML algorithm from a triangular signal strength (RSSI)
- A CNN for facial emotion recognition with Keras and Tensorflow
- A SVM classifier for facial landmark recognition with Opencv
- A CNN based autonomous driving car with Udacity simulator
- Predicting the next musical hit of 2019 (hackathon)
- Several Kaggle Competitions



```
# Libraries
import matplotlib.pyplot as plt
import pandas as pd
from math import pi
plt.rc('axes',edgecolor='w')

# Set data
df = pd.DataFrame({
    'group': ['A','B','C','D'],
    'Creativity': [31, 1.5, 30, 4],
    'Statistics': [38, 10, 9, 34],
    'Communication': [34, 39, 23, 24],
    'Programming': [33, 31, 33, 14],
    'Hard Work': [40, 15, 32, 14]
})

# number of variable
categories=list(df)[1:]
N = len(categories)

# We are going to plot the first line of the data frame.
# But we need to repeat the first value to close the circular graph:
values=df.loc[0].drop('group').values.flatten().tolist()
values += values[:1]
values

# What will be the angle of each axis in the plot? (we divide the plot / number of variable)
angles = [n / float(N) * 2 * pi for n in range(N)]
angles += angles[:1]

# Initialise the spider plot
ax = plt.subplot(111, polar=True)

# Draw one axe per variable + add labels labels yet
plt.xticks(angles[:-1], categories, color="white", size=8)

# Draw ylabels
ax.set_rlabel_position(0)
plt.yticks([10,20,30], ["10","20","30"], color="white", size=7)
plt.ylim(0,40)

# Plot data
ax.plot(angles, values, linewidth=1, linestyle='solid', color="white")

# Fill area
ax.fill(angles, values, 'w', alpha=0.1)

plt.savefig('radar.png', transparent=True, dpi=1000)
```