

Tommaso Galeazzo

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A full-stack data scientist with a strong analytical and numerical background built during a Ph.D. in physical chemistry and a MS. in computational and physical chemistry. I thrive working in an agile environment and on team projects. Result-oriented, adaptable, with a particular focus on: effective data visualisation and story telling, details, and translation of complicated concepts to laymen terms. Vast multicultural background with working experiences in France, Italy, Denmark, Japan and the US.

EDUCATION

PH.D. PHYSICAL CHEMISTRY

SORBONNE UNIVERSITY
Oct 2018 | Paris, FR

MS. PHYSICAL CHEMISTRY

UNIVERSITY OF COPENHAGEN
Jul 2014 | Copenhagen, DK

BS. CHEMISTRY

UNIVERSITY OF PADUA
Oct 2011 | Padua, IT

OTHER COURSES

Machine Learning (Stanford U.), Deep Learning Specialization (Stanford U.)

TECHNICAL SKILLS

PROGRAMMING

Advanced (> 1000h):
Python • FORTRAN
Intermediate (100-1000h):
LaTeX • Matlab
Beginner (0-100h):
Scala • HTML • R • SQL

IT

Git • Bash • Unix • Docker
Github: github.com/UOMOZ

MACHINE LEARNING (PYTHON)

Numpy, Pandas, Scikit-learn, XGBoost, Tensorflow, Keras, Seaborn, Plotly, spaCy, nltk, RDKit, FastAPI, Tox

LANGUAGES (CEFR)

Italian (C2 - native); French (C1 - fluent); English (C1 - fluent); Danish (A1 - basic)

OTHER SKILLS

- Excellent **presentation skills**
- Analytical and result oriented mentality, with proactive and hands-on attitude towards **business problem-solving**
- Vast **international professional experience**, at ease in interacting and working with people and teams from different cultural backgrounds
- Curious mind always learning from other people, cultures and new innovations

EXPERIENCE

RESEARCH SCHOLAR | UNIVERSITY OF CALIFORNIA, IRVINE

Sept 2019 – Present | Irvine, CA, US

- Predicting properties of chemical compounds via quantitative structure–property relationships (QSPR) using **Natural Language Processing (NLP)**, **deep learning** (neural networks) and **ensemble methods** (XGBoost)
- **Pipeline development** for chemical data and software deployment via **FastAPI**

These projects focus on applications of numerical modelling and machine learning to chemistry leading to 3 separate publications and a **cheminformatics API**.

DATA SCIENTIST (CONSULTANT) | PAGEANT MEDIA (VIA PIVIGO S2DS)

Aug 2020 - Sept 2020 | New York, NY, US

- Developed an AI software for **financial text analysis** and classification increasing **strategic information extraction** and **business productivity** by 15%
- Conducted advanced text classification and analysis with state-of-the-art **NLP algorithms** (tf-idf, neural networks) and **Named-entity recognition** tools (NER)

DATA SCIENTIST (CONSULTANT) | DATASOIL S.R.L.

May 2019 – Sept 2019 | Padua, Italy

- Identified and developed machine learning algorithms for **anomaly detection** on streamed data fluxes (t-digest, Random Forest, DBSCAN)
- **Wrote pipelines** for algorithms implementation in Datasoil's online platform

RESEARCH

RESEARCH FELLOW | INSTITUT PIERRE-SIMON LAPLACE

Oct 2018 – May 2019 | Paris, France

- Developed **algorithms for time series analysis** and integration of ordinary differential equations. Performed data processing and statistical analysis
- Run **sensitivity tests** to evaluate and enhance model performances

GRADUATE RESEARCHER | INSTITUT PIERRE-SIMON LAPLACE

Jan 2015 – Oct 2018 | Paris, France

- Developed CiTTyCAT, a software simulating atmospheric chemistry and physics
- Performed **statistical analysis** and processing in **Python**
- Published and presented results in peer reviewed journals and international conferences (Japan, France, USA)

RESEARCH ASSISTANT | UNIVERSITY OF COPENHAGEN

Jul 2013 – Aug 2014 | Copenhagen, Denmark

Co-designed and managed with **Prof. Matthew S. Johnson** a research project in **computational chemistry** and **statistical mechanics**. Participated to two residency rotations at Tokyo Institute of Technology (Tokyo, Japan) in Spring & Fall 2014.

AWARDS

2020 top 3/11

2018 International

2015 National

People's choice award - Pivigo 2020 S2DS Workshop

Early Career Grant at IGAC, sponsored by NASA and NOAA Grant (\approx 100k \$) from the French National Research Agency

HOBBIES | SURFING, INDUSTRIAL DESIGN, MUSIC PRODUCTION, WEB DEVELOPMENT