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Pablo Mas

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PhD candidate in machine learning applied to drug discovery, splitting my time between ENS and Sanofi (Integrated Drug Discovery team). I am also a lead teacher at Le Wagon data science bootcamp.

EDUCATION

Doctor of Philosophy   **10/2022 — Present**
École Normale Supérieure (ENS Ulm)   *Paris, France*
- Research on applications of machine learning to theoretical chemistry and drug design. Under supervision of Pr. Rodolphe Vuilleumier (ENS) and Dr. Marc Bianciotto (Sanofi).

Master of Science (BME Paris)   **09/2021 — 09/2022**
PSL University & University of Paris   *Paris, France*
- Relevant courses: Deep learning and neurosciences - Deep learning and neurocomputational projects - Quantification for Neuroimaging - Machine Learning for Bioimaging

Master of Science ("Diplôme d'ingénieur")   **09/2018 — 09/2021**
ESPCI Paris - PSL   *Paris, France*
- Biotechnology specialization (3rd year): Systems biology and neurobiology - Biochemistry and molecular biotechnology - Deep learning - Statistical learning – Advanced analytical chemistry

Bachelor of Science in Physics and Chemistry   **09/2016 — 09/2018**
Sorbonne University   *Paris, France*
- Highly selective double bachelor's degree with majors in physics and chemistry.

EXPERIENCE

Research scientist   **10/2022 — Present**
Sanofi   *Paris, France*
- Research on the application of generative models (and more broadly machine learning) to the drug discovery pipelines.

Research intern   **02/2022 — 09/2022**
Aramis Lab (INRIA / Paris Brain Institute)   *Paris, France*
- Developed deep learning algorithms (Graph Neural Network) for automated segmentation of peptide accumulation in whole slide images for the stratification of Alzheimer disease's patients. Under supervision of Pr. Daniel Racoceanu.

Data science teacher   **09/2021 — Present**
Le Wagon   *Paris, France*
- Teaching data visualization, mathematics, machine learning and deep learning and supervising final bootcamp projects.

Research intern   **04/2021 — 08/2021**
LSABM (ESPCI Paris - PSL)   *Paris, France*
- Developed an LC-MS method for the analysis of mustard gas-modified DNA traces in collaboration with the "Direction G en erale de l'Armement (DGA)". Under supervision of Pr. Valérie Pichon.

Analytical scientist intern   **07/2020 — 12/2020**
Adocia   *Lyon, France*
- Worked on a cell therapy project. Development and caracterisation (HPLC, NMR) of a hydrogel to protect islets of Langerhans (beta cells) to create an artificial pancreas. Under supervision of Ségolène Laage, PhD.

Research intern   **06/2018 — 08/2018**
Phenix Lab (CNRS / Sorbonne Univeristy)   *Paris, France*
- Studied water dynamics in 15th century paintings by NMR relaxometry, X-ray and IR spectroscopy. Under supervision of Pr. Guillaume Mériguet.

Data analyst intern   **05/2017 — 08/2017**
Development Alternatives Incorporated   *Washington DC, USA*
- Analyzed data and created data visualization dashboards. Participated in the development of a report for the Aspen Institute : "A Global Opportunity: Get Youth Working". Under supervision of Lara Goldmark, VP Economic Growth.

SKILLS

Tools and Languages	Python (scikit-learn, PyTorch, Tensorflow, RDKit...), Matlab, C, Git, LaTeX, SQL
Communication	French (native), English (C1), Spanish (B1)

EXTRACURRICULAR ACTIVITIES

Treasurer of the ESPCI Paris - PSL student's office, in charge of a 120 000€ budget
External Relations Officer of the ESPCI Paris - PSL sports union
Sports : Handball (14 years, twice champion of Morocco), diving (PADI 2), skiing