



Pierre Galmiche

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Born on May 13, 1997 | Nationality: French

SUMMARY

Passionate computer scientist with expertise in machine learning, data analysis, and mathematical modeling. Skilled in working across disciplines to turn complex problems into practical solutions, and in communicating insights clearly to both technical and non-technical teams. Focused on creating data-driven solutions with measurable impact.

SKILLS

- Research & Development:** ML Methods, pipeline design, interdisciplinary collaboration
- Statistical Analysis & Data Visualization:** Analysis of heterogeneous medical data with applications in radiotherapy
- Deep Learning & Scientific Libraries:** TensorFlow, PyTorch, Keras, NumPy, Pandas, Scikit-learn, OpenCV
- MLOps & Engineering:** Git, DVC, Docker, CI/CD, AWS, Linux/Unix, automation of data pipelines & documentation
- Programming Languages:** Python, C++, C, MATLAB, Julia, R
- Languages:** French (Mother tongue) | English: Fluent (C1) | German: Intermediate (B1)
- Soft Skills:** Creativity in problem-solving, Analytical thinking, Communication skills (explaining complex ideas clearly), Curiosity

EXPERIENCE

- PhD in Computer Science** Sep 2020 – Nov 2024
ICube Laboratory Strasbourg, France
- Monitored breast shape evolution during radiotherapy by performing 3D shape matching and image analysis on clinical trial data ([link to my manuscript](#))
 - Partnered with radiotherapists and medical physicists to align research with clinical needs.
 - Published in: [Pacific Graphics 2023](#), [CGF 2023](#), [ICCR 2024](#)
- Temporary teaching and research associate** Sep 2023 – Aug 2024
Télécom Physique Strasbourg, University of Strasbourg Strasbourg, France
- Delivered both lectures and hands-on practicals for Master's courses (Engineering school) in Algorithms and C Programming, Statistics, Machine Learning and Pattern Recognition, and Numerical Analysis.
 - Supervised student projects in C programming and Data Science/AI.
- Medical Image Processing Internship (Master 2)** Feb 2020 – Jul 2020
General Electric Healthcare Strasbourg, France
- Created and implemented Image Quality Assessment (IQA) techniques to enable consistent evaluation of CT image quality.
 - Analyzed the balance between X-ray dose reduction and maintaining image quality to optimize patient safety and diagnostic value.
- Supply chain optimization Internship (Master 1)** Oct 2019 – Jan 2020
Électricité de Strasbourg Strasbourg, France
- Applied data-driven optimization techniques to improve global supply chain performance.

EDUCATION

- University of Strasbourg, ICube Laboratory, MLMS Team** Strasbourg, France
Ph.D. in Computer Science Sep 2020 – Nov 2024
- University of Strasbourg** Strasbourg, France
Master in Applied Mathematics Sep 2018 – Aug 2020
- University of Lorraine** Nancy, France
Bachelor of Science in Fundamental Mathematics Sep 2015 – Aug 2018