Guillaume **Théméze** | PhD in Quantum Physics | Agrégé de Physique | Quantitative Developer

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Education

Université Paris-Saclay	**France**
PhD in Quantum Physics	*2022–2025*

Research on one-dimensional bosonic gases: theoretical modeling, numerical simulations, and local density measurements.

Éducation Nationale	**France**
Agrégation de Physique-Chimie	*2020*

Université Paris-Saclay	**France**
Master in Fundamental Physics	*2017–2020*

Experience

Université Paris-Saclay	**France**
Doctoral Researcher / Teaching Assistant	*2022–2025*

Developed mathematical and numerical models of quantum gases. Conducted simulations using Python, Julia, and C++. Taught Quantum Mechanics and Signal Processing courses to undergraduates.

Independent Developer / Side Projects	*2021–2022*

Designed and implemented web applications (HTML, CSS, JS, Flutter) and scientific tools (Python, Julia, C++). Developed AI/ML pipelines for data analysis and simulations.

Skills

Programming: Python, C++, Julia, JavaScript, HTML, CSS, LaTeX, TikZ

Frameworks / Tools: Django, Flutter, Git, VS Code, Xcode, Android Studio

Mathematics & Finance: Stochastic processes, Statistics, Optimization, Monte Carlo simulations

Machine Learning / AI: Deep Learning, Reinforcement Learning, Data Analysis, Simulation

Languages: French (native), English (fluent)

Interests

Sports: Football, Hiking, Weightlifting

Creative: Drawing, Photography

Tech & Science: AI, Open-source Projects, Quantum Simulation