

Théo Le Guenedal, Ph.D.

Head of A.I. for Investment

Paris, France | +33 6 37 89 49 22 | theoleguenedal@gmail.com

EXECUTIVE PROFILE

Head of A.I. for Investment at Amundi Technology, combining artificial intelligence (AI), asset management expertise, AI product strategy and digital transformation. Leads transformation for the Investment Business Line and the development of **ALTO Insight**, an AI-augmented platform for investment research and portfolio decision-making, supported by **8 developers, 2 Quant/ML Ops engineers, a Product Owner and 2 IT managers**. Connects investment needs with production solutions across investment research, financial analysis, portfolio management and workflow automation. Brings a Ph.D. in applied mathematics and a research track record in AI, investment analytics and climate finance.

SELECTED EXPERIENCE

Head of A.I. for Investment

Nov 2025 - Present

AI & Digital Office · Amundi Technology · Paris

- **Investment transformation lead:** lead AI strategy and digital transformation for the Investment Business Line, connecting investment-team needs with the design, integration and production deployment of internal AI solutions.
- **ALTO Insight platform lead:** designed and led the development of an AI-augmented platform for investment research and portfolio decision-making, supported by 8 developers, 2 Quant/ML Ops engineers, a Product Owner and 2 IT managers.
- Shape AI use cases for asset management across productivity, financial analysis, investment research and alpha generation; translate business needs into decision-support tools and workflow automation.
- Lead prospective work on AI and advanced analytics for investment, including natural language processing (NLP), news and narrative analytics, central-bank text mining and alternative data.
- Coordinate business, research and technology stakeholders and oversee academic partnerships with the Quantitative Research team.
- Lead prospective development for ALTO Climate: automated climate assessment, ESG controversy monitoring and climate stress testing.

Lead of Climate and Prospective Research

Nov 2022 - 2025

Innovation Lab · Amundi Technology · Paris

- Designed and managed **ALTO Climate**, translating climate research into platform capabilities for investment workflows and portfolio construction.
- Developed climate-risk assessment tools for allocation strategies, scenario analysis and climate Value-at-Risk, together with portfolio-alignment and monitoring dashboards.
- Coordinated partnership work with MIT's Center for Sustainability Science and Strategy.

EARLIER & COMPLEMENTARY EXPERIENCE

Climate and Physical Risk Modeler

Jun 2024 - 2025

Institut Louis Bachelier · Paris

- Contributed to CATHERINA 1.2, an open-source module for cyclone-track generation and national damage assessment, and supported research delivery and data access for PLADIFES.

Quantitative Researcher

Jun 2018 - Jun 2022

Amundi Asset Management · Paris

- Developed methods to integrate ESG and climate criteria into allocation and investment processes.
- Researched alternative alpha signals, including central-bank text mining for systematic strategies, and conducted doctoral research on climate risks in financial modelling.

Project Engineer Intern

Apr 2017 - Aug 2017

BG Consulting Engineers · Marseille

Energy-planning studies, renewable-energy supply solutions and tender responses for innovative energy concepts.

LEADERSHIP & EXPERTISE

Investment AI & transformation

AI strategy; digital transformation; investment AI; asset management; financial analysis; investment decision support; workflow automation; natural language processing (NLP); text mining; alternative data.

Product & delivery

AI product strategy; platform leadership; product development; cross-functional leadership; stakeholder management; research-to-production delivery; academic partnerships.

Investment-domain depth

Portfolio management; portfolio construction; investment analytics; systematic signals; backtesting; climate and ESG risk; scenario analysis.

Hands-on engineering

Python, Django, SQL, React, Node.js, R, Shiny, HTML; application design, integration and production deployment.

Languages

French: native · English: professional

EDUCATION & RECOGNITION

Ph.D. in Applied Mathematics · 2019 - 2022

Institut Polytechnique de Paris · CREST / ENSAE / École Polytechnique / CNRS
Financial Modeling of Climate-related Risks.
Defended December 2022.

Diplôme d'Ingénieur · 2014 - 2018

École Centrale Marseille
Mathematics, Management, Economy and Finance.

Master in Mathematics and Applications

Aix-Marseille University · 2017 - 2018
Mathematical Engineering and Modelling.

Double Master's Degree · 2016 - 2017

IMREDD / ISEM · Université Côte d'Azur
Engineers for Smart Cities and Economic Management.

Research awards

GRASFI Best Paper Prize · 2020
CEFGrou Best Paper Prize · 2023