

DAI Zexin

Final Year Engineer Student at ISAE-SUPAERO

Objective: Application for the TSM Doctoral Program Tele: +33 (0)6 99 40 34 85

Email: zexin.dai@gmail.com

Education

Since 2018	Institut Supérieur de l'Aéronautique et de l'Espace (ISAE-SUPAERO) <i>Ingénieur ISAE-SUPAERO (MSc), expected graduation in 2021</i> <ul style="list-style-type: none">➤ Sector: Decision Sciences - Financial Engineering<ul style="list-style-type: none">➤ Statistics - Stochastic Calculus - Econometrics - Derivatives - Microstructure➤ Domain: Complex Systems and Simulation - Applied Mathematics<ul style="list-style-type: none">➤ Modeling - High Performance Computing - Optimization Algorithm	Toulouse
2013 - 2017	Shanghai Jiao Tong University, École d'ingénieur SJTU-ParisTech (SPEIT) <i>Bachelor of Science in Mechanical Engineering</i> <ul style="list-style-type: none">➤ French "Classes Préparatoires", in parallel with Bachelor	Shanghai
Since 2019	Coursera <i>E-Learning</i> <ul style="list-style-type: none">➤ Microeconomics Principles – Monetary Policy – Financial Markets – Game Theory	Internet

Experience

Since 2021	Toulouse Business School, Research Center, Research Center, End of study internship <i>Research Assistant Intern</i> <ul style="list-style-type: none">➤ Numerical simulation of models and result analysis	Toulouse
Since 2020	ISAE-SUPAERO, Company Engineering Project <i>AI & Trading</i> <ul style="list-style-type: none">➤ Development of an AI to guide purchasing and sales decisions<ul style="list-style-type: none">➤ Data Processing, Text Scraping and Sentiment Analysis	Toulouse
2020 6 months	Toulouse Business School, Research Center, Gap year internship <i>Research Assistant Intern</i> <ul style="list-style-type: none">➤ Event study on the Airbus-Boeing duo-poly case<ul style="list-style-type: none">➤ Data processing, Linear regression, Hypothesis tests➤ Testing AI models for speech recognition➤ Modeling of the problem related to high frequency trading	Toulouse
2019 – 2020 6 months	X-Square Investment, Department of Investment, Gap year internship <i>Quant-Researcher Intern</i> <ul style="list-style-type: none">➤ Construction of an alpha strategy model driven by several types of events➤ Research on fundamental financial factors, moments, etc.➤ Reproduction and improvement of academic research results in market	Shanghai
2017 6 months	Valeo, Powertrain Systems Business Group, Stage de recherche <i>Simulation Engineer Intern</i>	Shanghai

Information

Software:	Microsoft Office, Mathematica
Coding:	Python, R, JAVA, MATLAB, C/C++
OS:	Windows, Linux

Languages

English:	Working proficiency	French:	Working proficiency
Mandarin:	Native		

Interests and Activities

Association:	Delegate of AST Students at ISAE-SUPAERO (since 2018) Delegate of Alumni at SPEIT (since 2017)
Sports:	Football, Boxing, Marathon
Volunteer:	English-Chinese Translator at Coursera (since 2019)