

# Nattirat Mayer

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## RESEARCH INTERESTS

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Statistical Learning, Econometrics, Reinforcement Learning, Causal Machine Learning, Energy Economics, Financial Engineering, Renewable Energy

## EDUCATION

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**PhD Candidate** 2024-2027

Bureau d'Economie Théorique et Appliquée (BETA), Université de Strasbourg, France

**Master of Data Science (DS2E) *First-class honours*** 2024

Université de Strasbourg, France

**Bachelor of Aerospace Engineering *Upper second-class honours*** 2017

Kasetsart University, Bangkok, Thailand & RMIT University, Melbourne, Australia

## THESIS & RESEARCH

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**Master *Theoretical Analyses of the Renewable Energy Market under Uncertainty***

Supervisor: Prof. Bertrand KOEBEL

- Analyses of the EU energy market under weather-related stochasticity to increase the capacity of renewable energy sources

**Bachelor *Wind Turbine Blade Design and Optimization***

Supervisor: Prof. Fei-Bin HSIAO

- Design and optimization of a small turbine blade based on Blade Element Momentum Theory by Ansys, MATLAB, and SolidWorks

## AWARDS & FELLOWSHIPS

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**Université de Strasbourg | *Full Doctoral Fellowship*** 2024 - 2027

- 3-Year Doctoral Fellowship from The University of Strasbourg

**RMIT University | *RIIERP Representative*** 2016 - 2017

- Selected (as one of 70 students from the entire final-year engineering cohort) to represent the RMIT International Industry Research Experience Program (RIIERP).

**RMIT University | *2nd Class Honor*** 2017

- Earned 2nd Class Honour in Bachelor of Aerospace Engineering from School of Aerospace, Mechanical and Manufacturing Engineering

## RESEARCH EXPERIENCE (2017-2024)

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**Research Assistant (Master Thesis) | *Université de Strasbourg, Strasbourg, France***

- Conduct master thesis research supervised by Prof. Bertrand KOEBEL

**Research & Development Engineer | *Continental GmbH, Hanover, Germany***

- Work with the Head of the Data Science Department and project managers on a digital transformation and on other internal research projects

**Research Assistant** | *National Cheng Kung University (NCKU), Tainan, Taiwan*

- Research work at Wind Energy Laboratory at the Department of Aeronautics and Astronautics on design and optimize small-scale wind turbine blades

## **INDUSTRIAL EXPERIENCE (2017-2023)**

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**Technology Consultant** | *Accenture Inc., Bangkok, Thailand*

- Work alongside with software engineers and developers on various sophisticated digital transformation and software implementation projects for clients in the energy industry, ranging from medium to large-scale initiatives

**Product Management** | *KSB AG, Frankenthal, Germany*

- Conducted in-depth product comparisons and market research

## **WORKING PAPERS**

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Mayer, N. (2025). “Copula-Based Analysis of Meteorological Interdependencies”. Working paper.

Mayer, N. (2025). “Quantifying Renewable Resource Uncertainty: A Nonparametric and Copula-Based Approach”. Working paper.

## **PRESENTATION**

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”Copula-Based Analysis of Meteorological Interdependencies”, *Doctoral Seminar*, University of Freiburg, Wiesneck Institut für politische Bildung Baden-Württemberg, Germany, March 2025

”Copula-Based Analysis of Meteorological Interdependencies”, *Third International Conference on Action versus Inaction Facing Climate Change (AICC)*, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, June 2025

”Quantifying Renewable Resource Uncertainty: A Nonparametric and Copula-Based Approach”, *Doctoral Seminar*, Bureau d’Economie Théorique et Appliquée (BETA), Saint-Dié-des-Vosges, France, December 2025

## **RESEARCH STAYS**

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University of Konstanz, Germany

March 2025

University of Freiburg (Eucor Program), Germany

May – July 2025

## **TEACHING**

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Reinforcement Learning (Graduate level) — 20 hours.

2025

## **SKILLS**

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Programming Skills: Python, MATLAB, R, C++

Languages: English (IELTS 7.5), French (DELF B2), Thai (Native), German (Beginner/Learner)