

# Theodore Ladas

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## WORK EXPERIENCE

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### • Johnson and Johnson

Belgium

*PhD internship - Statistician*

*Jul 2022 - Sep 2022*

- **Overview:** Developed a Bayesian Optimization System for Reaction engineering.
- **BO system:** Researched, Developed and Documented a Bayesian Optimization system from scratch to fit the needs of Reaction Engineering. The chemists would input the yield result of their experiment on my system and the system would output the next "best" experiment to conduct in order to maximize the yield of the reaction. The system was able to handle multi-level categorical data as well as numerical.

### • Blueground

Greece

*Business Intelligence Analyst*

*Jun 2019 - Aug 2020*

- **Overview:** Developed technical skills on coding, data warehouse management and infrastructure, machine learning techniques, data analysis and reporting.
- **Automation of KPIs:** Responsible for setting the procedure and automatically delivering the managerial KPIs in various granularity levels by building data-cubes, directly to the group CEO and the general managers and directors of the group.
- **Machine Learning:** Supported the team on an ad-hoc basis with exploratory data analysis as well as model evaluation techniques for machine learning models.
- **Other tasks:** Created, automated and maintained flagship dashboards that measured and visualized relevant data for various teams (Sales, Real Estate team, Customer Experience etc).

### • Blueground

Greece

*Finance Business Partner*

*Jul 2018 - Jun 2019*

- **Overview:** Learned to work on a strict time schedule to produce reports on WoW and MoM Cashburn and PnL, as well as controlling inflows and expenses of the company
- **Bookkeeping:** Maintained and analyzed the Cashflow as well as explained the monthly PnL on a weekly basis to the VP of finance.
- **Other:** Developed time-series analysis model that managed predict cash burn of the business on a weekly basis with a 10% error

## EDUCATION

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### • Kings College London

London, UK

*PhD - Statistics*

*2021 - Current*

- **Relevant work:** Machine Learning, Design of Experiments, Functional Data analysis

### • University of Edinburgh

Edinburgh, UK

*MSc - Statistics with Data Science;*

*2020 - 2021*

- **Relevant Coursework:** Machine Learning and Pattern Recognition, Bayesian Statistics and Data Science, Incomplete Data analysis, Optimization Theory, Statistical Programming

### • Deree, The American College of Greece

Athens, Greece

*Minor - Information Technology;*

*2016 - 2019*

- **Relevant Coursework:** OOP, RDBMS, C, Data Mining and Big Data

### • University of Piraeus

Piraeus, Greece

*BSc - Economic Theory Economics Department;*

*2014 - 2018*

- **Relevant Coursework:** Advanced Econometrics, Time-series, Stochastic Models, Financial Accounting

## PROJECTS

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- Dissertation: In collaboration with Lloyd's bank, I developed a Bayesian Neural Network that was used to capture anomalous transactions.
- PhD Projects: Currently developing a python library to design experiments with scalar as well as functional variables as inputs / output.

## SKILLS

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- **Programming**: Python (pandas, numpy, matplotlib, plotly, keras, tensorflow), R (tidyverse, dplyr, ggplot2), SQL, C (Basic level), Stata, git, VBA
- **Languages**: Fluent in English (Proficiency from the University of Michigan, IELTS), Mother tongue Greek