Diomides MAVROYIANNIS

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Cypriot / French (Dual Nationality)

TECHNICALLY ASTUTE ECONOMIST WITH INTERNATIONAL EXPERIENCE
GAME THEORY | INDUSTRIAL ORGANISATION | PROBABILITY | MICRO- / MACRO-ECONOMICS | RISK MANAGEMENT

Academic Economist with a proven track record(over 1B€ in value added). Has strong practical and academic experience with financial analysis, forecasting, and data. The academic background was focused on the economics of innovation and pricing using growth maximizing techniques. A wide cultural awareness, global mindset, and multilingual skills gained via international experience. Has a wide array of technical skills acquired from both academic and business settings, namely, Python, Mathematica, Excel(advanced VBA knowledge), LaTex, STATA, EVIEWS, Java, Tableau.

// PROFESSIONAL EXPERIENCE AND ACHIEVEMENTS

Corporate reporting advisor | ExxonMobil, Budapest   2021/08-Present

- Created tableau dashboards to automate data processing from SAP to DATAFLEX
- Manages the Norway and UK reporting units by being responsible for the figures and presenting them to management
- Responsible for Forex effects on earnings for the European region. Maintains and innovates on transactional and translational processes for all European earnings.
  Keywords: Process improvement, FOREX, VBA, TABLEAU, SAP

Module and Econcohort Leader | Milestone Institute, Budapest   2021/01-Present

- Lead students to understand economics in two personally designed modules: Industrial Organization and Econometrics
- Economics cohort leader is a role where one must organize social events for all students with an economic aptitude.
- Student mentor, assigned a few economics students foster the growth of their knowledge base
  Keywords: Teaching, Statistics, Pricing, Anti-Trust

Economic Consultant | European Economics and Schuman Associates, Budapest (Remote)   2020/01- Present

- Authored counterfactual analysis of European Energy market with and without the state aid using analytics such as NPV and WACC.
- Optimized project scale, resulting projects ranged from receiving subsidies of 55M € to 600M € (for Multinationals).
- Presented the economic case for subsidies to the European commission for IPCEI funding legibility.
- Prepared the portfolio of numerous projects including market analysis before and post intervention.
  Keywords: Market shares, pricing power, elasticities, forecasts of prices, presentations to experts, economic literature review

Teaching Assistant | Paris Dauphine and Marne-la-Vallée   2015-2019

- Taught at Paris Dauphine: Economics of Uncertainty(VNM, Bayesian, insurance, etc) for 3rd year math students, General equilibrium for 2rd year math students, Microeconomics for 1st year economics students
- Taught at Marne La Valee: Monetary Economics(this included central banking, interest rates, monetary aggregates), Social Economic Policy(Unemployment, taxation and the like) both for 2nd year economic students
- During my time at Dauphine I also acted as chief librarian for the MSc and PHD library twice a week for 2 years.
  Keywords: Probability, Money and Finance, Teaching, Economics

Credit Analyst | LOGICOM GROUP, Nicosia   2013-2014

- Evaluated credit value, (regression, probabilistic models) for new and existing clients
- Performed a series of data projects using internal company data and delivered presentations to Economic Director and Financial Analysts.
  Keywords: Probability, Money and Finance, Teaching, Economics

Multi-Annual Financial Framework Analyst | EU COUNCIL (PRESIDENCY OF CYPRUS), Brussels   2012-2013

- Created the first draft of a MFF compromise to meet the diverse demands of numerous European Union states.
- Researched and Analysed the effectiveness of various policies, especially direct payment versus conditional payments and the European Cohesion fund and it's thresholds.
- **Keywords**: Data analysis, negotiations

// EDUCATION AND QUALIFICATIONS

PhD Economics | UNIVERSITY PARIS DAUPHINE, Paris   2015-2019

- Specialty is around industrial organisation, microeconomics and Ergodic economics.
- The PHD included Taught courses: Mechanism Design, Microeconomics, Cooperative Game theory, Advanced Microeconomics and History of Economic Thought
- -In **Chapter 1** demonstrated that when value stems from a network, the optimal pricing strategy of a firm may be to focus on targeting high value users, whilst allowing low value users free usage of the product.

Tools used: Differential Calculus, Mathematica, Python(simulation), Microeconomics, Game theory
- Working paper title: **Network Value and Piracy**
- Working paper title: **A survey of the economics of property rights**

  -Chapter 2 is about Mergers and Acquisitions. Specifically, how a regulator can evaluate whether mergers will result in innovations where the time structure of a certain pattern is favoured. For instance, a project that will result in earlier cash flows but lower total cash flows may be favoured without a discount factor.
  Tools used: Differential Calculus, Markov decision process
- Working paper title: **On the choice between Sequential and Radical Innovation**

  -In Chapter 3 I identified a knowledge gap about discount factors. Specifically, we question the viability of exponential discounting relative to hyperbolic and determine the conditions under which each can be optimal. This is joint work with Ole Peters, Alex Adamou and Yonatan Berman of the London Mathematical Laboratory.
  Tools used: Brownian motion and Geometric Brownian motion, Microeconomics, Python(simulation)
- Published paper: '**Microfoundations of discounting**' in Decision Analysis

MSc Economics | **UNIVERSITY OF EDINBURGH, Edinburgh**	**2014-2015**

- Improved awareness surrounding econometrics, advanced micro / macroeconomics, time series econometrics and macroeconomic policy. Studied issues associated with business strategy, including investment, mergers and acquisitions.
- Thesis: What is the effect of technology on wages? The main findings are that, as long as humans have the edge on some sectors, the cost disease entails higher overall wages.

MSc Corporate and International Finance | **UNIVERSITY OF DURHAM, Durham**	**2012-2013**

- Studied international corporate finance and corporate governance practices, alongside econometric techniques involved in international corporate finance, asset pricing (Black Scholes / VAR), international trade and monetary theory.
- Summer school in Cologne; contributed to DHL supply chain project relating to Brazilian tax rates.

BSc Business and Finance | **UNIVERSITY OF SUSSEX, Brighton**	**2009-2012**

// OTHER EXPERIENCE

- Seamlessly adapted to diverse cultural backgrounds during a mix of international experiences, including Translator in China; previously introduced marketing software at an international group in Lebanon, and completed military service in Cyprus.

// PROFESSIONAL DEVELOPMENT

Speaker: University of Cyprus Economics Seminar	
Speaker: Public Economic Conference, France	**2019**
Speaker: Spain-Italy-Netherlands Meeting on Game Theory (SING15), Finland	**2019**
Attendee: Real World Risk Institute, New York, USA	**2019**

- An intensive workshop run by Nassim Nicholas Taleb which focuses on the statistical properties of fat tails.

Speaker: BiGSEM Workshop in Economic Theory, Germany	**2018**
Attendee: NEComplex Systems Institute Summer School, Boston, USA	**2018**

- A summer school at MIT run by Yaneer Bar Yam which focuses on complexity science. Included two projects: the first was a python program which could randomly generate fractals of different kinds and the second, also a Python project was about representing communication dynamics on a network with agents who reinforce their opinions by sharing similar information.

Participant : Durham Trading competition, UK	**2012**

- A program run over a semester at Durham where masters students compete to get the best outcomes on a trading account. I won 2nd place among around 200 participants, this was partially evaluated using the Sharpe Ratio.

// OTHER INFORMATION

IT Skills: Excel(VBA) | Mathematica| Python | Stata| R | Eviews | Tableau | SAP
Languages: Fluent English, Greek, French, and currently learning Hungarian