

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 that has contributed to creation of over a billion euros revenue. Has strong practical and academic experience with forecasting and data analysis. Academic background was focused on the economics of innovation and pricing using growth maximizing techniques. Strong cultural awareness, global mind-set 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, LaTeX, STATA, EVIEWS, Java.

// 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' forthcoming 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

// PROFESSIONAL EXPERIENCE AND ACHIEVEMENTS

Module and Econcohort Leader | Milestone Institute, Budapest

2021/01-Present

- Lead students to understand economics in an Industrial Organization module in a personally designed course
- Economics cohort leader is a role where one must organize social events for all students with an economic aptitude.

Economic Consultant | European Economics and Schuman Associates, Budapest (Remote)

2020/01- Present

- One of the riskiest parts of the application is to show that the state aid will create projects that would not have occurred without the state aid. This involves detailed analytics using the NPC and WACC balanced with what kinds of costs are eligible for aid, this was my primary function as an economic consultant, to determine the scope and size of projects. The results were successful funding ranging from subsidies of 55 million to 600 million euros.

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- For a project to be accepted by the European Commission to be eligible for IPCEI funding, one must make an economic case for it. Lead the project discussion by discussing economic literature on positive externalities of infrastructure and market failures against a panels of French/German/Italian/Belgian/Dutch/Danish experts who were assigned to interrogate project eligibility.
- Once the national authorities accept the project, the European commission has to also approve it, for this, it must be shown that the effect of entry with a significant subsidy will not give undue monopoly power to any single firm, as such it was my role to give an extensive breakdown of the effect on market shares, measure elasticities of supply, and provide forecasting of future prices, in both the hydrogen and microelectronics industries.

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 2nd year math students, Microeconomics for 1st year economics students
- Taught at Marne La Valey: 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.

Credit Analyst | LOGICOM GROUP, Nicosia

2013-2014

- Evaluated credit value, (regression, probabilistic models) using diverse metrics.
- Evaluated internal company data and delivered presentations to Economic Director and Financial Analysts.

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.

// OTHER EXPERIENCE

- Seamlessly adapted to diverse cultural backgrounds during a mix of international experience, 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: Microsoft Excel | Mathematical Python | Stata | R | Eviews

Languages: Fluent English, Greek, French, and currently learning Hungarian