



ESSEC
BUSINESS SCHOOL

Enlighten. Lead. Change.

PHD IN BUSINESS ADMINISTRATION



ESSEC BUSINESS SCHOOL



Vincenzo Vinzi
Dean and President
of ESSEC Business School

CREATED IN 1907, ESSEC BUSINESS SCHOOL IS A WORLD-SCHOOL WITH FRENCH ROOTS. ITS PURPOSE IS TO INFUSE TOMORROW'S LEADERSHIP WITH MEANING.

ESSEC is a **business school** with programs ranging from Bachelor to PhD, a wide range of Masters programs including our flagship **Master in Management** and **Global MBA** programs. ESSEC also offers executive education and custom training designed and developed on-demand for our partners from the private sector. ESSEC holds the **"Triple crown"** of accreditations for global business education: **EQUIS, AACSB** and **AMBA**.

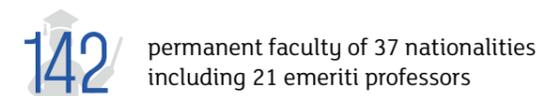
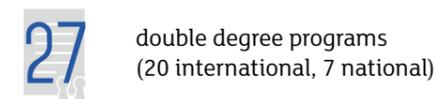
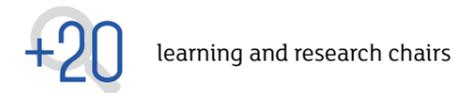
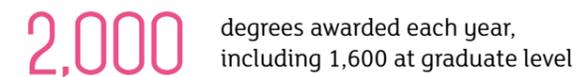
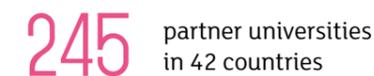
At the core of the ESSEC learning experience is a combination of **excellence and distinctiveness**. ESSEC's **unique educational model** is based on education by experiences, that foster the acquisition of **cutting-edge knowledge** with the development of **know-how** and **life skills**. At ESSEC, we aim to **empower** students and give them the keys to imagine, create, lead and have a **positive impact** in the business world of tomorrow that will be more complex and changing ever more rapidly.

ESSEC is a world-school. Our International campuses in **Asia-Pacific** and **Africa** are **dual gateways** that allow students to really immerse themselves into **different cultures** worldwide and develop **genuine expertise** about business in those regions. They allow our school to build deeper alliances with academic, private and public partners in those regions that are growing at an accelerated pace and will be leaders of economic growth in tomorrow's world. ESSEC has built a network of alliances with **academic partners worldwide** so that its students' learning journey is a true international one.

ESSEC is a school with **French Roots** that trains **responsible leaders**. Being a responsible leader means being able to see beyond *business as usual*. Responsible leaders are able to value **long-term benefits** over short-term profits; they are able to blend corporate performance with **employees' well-being**. To prepare its students for the world of tomorrow, ESSEC's pedagogy seeks to awaken and develop **creative and critical thinking**, together with **the learning-by-doing** method. Responsible leaders are those who can see the broader picture.

ESSEC is a **full ecosystem** at the crossroad of rigorous and relevant research, innovation, business and society. At ESSEC we believe in bringing research and companies into the classroom, we also believe that learning doesn't end with a degree: learning at ESSEC means becoming a **life-long learner** and joining a close-knit **community** of more than **62,000 Alumni** all across the globe. ■

Key figures



MESSAGE FROM THE DEAN OF THE PHD PROGRAM



Anca METIU
Professor of Management,
Associate Dean
of the PhD Program

ESSEC Business School belongs to a select group of European institutions delivering a PhD degree that meets the highest international standards. Our faculty is deeply committed to the training of future research and professors who will then work in the field of business and management education.

The ESSEC PhD Program targets and breeds excellence at every stage of the PhD journey. You will be part of a select group of able and motivated students from across the world, coming from a variety of disciplinary backgrounds. The 70 students currently enrolled come from 23 countries. As an entering PhD student, you immediately become part of a vibrant intellectual community. You will be mentored closely by several of our distinguished faculty. You will work on research projects with your advisors, develop your knowledge of your chosen field, and hone your research skills. At the same time, you will follow a rigorous theoretical and methodological training. Over time, you will define and execute a dissertation study that will make a significant contribution to knowledge and to practice. By the time you will be writing your dissertation you will have become an expert in a particular area, a scholar able to function and reinvent yourself in the complex academic world of tomorrow, an educator ready to impart knowledge with your own students. During the time in the PhD Program you will also become an active member of the ESSEC as well as the global research community. You will participate in international conferences and workshops where you will present and refine your work with the input of leading experts in your field. You will be encouraged to be an exchange visitor in some of our partner schools, to further your knowledge and your connections to the broader scholarly community.

ESSEC is particularly well-equipped to accompany you in this life-transforming journey. We are a leading global business school (ranked #3 for its MiM Program by the Financial Times) boasting a top-level and highly international faculty. Furthermore, the ESSEC PhD Program has fostered a research community that is both highly active internally and broadly open through a dense web of international networks. Therefore, as a PhD student, you can take advantage from our double location (France and Singapore) and you can leverage our dense international network of outstanding partner institutions in Europe, Asia and the Americas. While you will be working closely with your advisors, you will have ample opportunities to engage in exchanges and collaborations with other members of the faculty, with your colleagues, with visiting professors and research seminar speakers. In France, the ESSEC PhD Program is a partner to the joint Doctoral School of ESSEC - CY Cergy Paris University. This allows our students to leverage from a broader pool of resources. It also means that our graduating students are eligible for two diplomas at the same time – an ESSEC PhD and a Doctorat ESSEC (French standard). Finally, the ESSEC PhD Program offers full-tuition scholarships as well as a tax-free stipend to cover living expenses so that when you enter our program, you can focus entirely on your research.

Alumni of the program now work as research professors in leading business schools and universities around the world, while others have taken positions in research organizations. According to the AACSB, we are facing a global chronic shortage of doctorally qualified business school faculty. Hence your dedication and motivation will be rewarded by very attractive career prospects. The ESSEC PhD Program offers entrance into an exciting and fulfilling international academic career.

ESSEC PhD Program is supported by Initiative d'Excellence Paris Seine



PHD PROGRAM PHILOSOPHY

We believe that quality research in business administration and economics demands a wide-ranging perspective and understanding. Only this kind of broad-based knowledge can nurture the complex issues of modern business and society.

The curriculum thus starts with an intensive period of interdisciplinary training. This is followed by rigorous research training in the chosen field of specialization. The goal is to prepare students to master methodologies, advance knowledge, and play an active role in the international academic community.

Fostering openness to ward the European and international environment, both academic and economic, is also an important goal. Research conducted within the framework of the Ph.D. Program addresses current challenges in modern management, business, and economic administration.

Research is both theoretical and empirical, acknowledging the importance of both scientific rigor and relevance to individuals, organizations, and society.

Students have the opportunity to meet their colleagues and professors from a variety of other institutions, either directly or at specialized academic colloquia and conferences, so they can develop direct experience of the issues shaping the debates in the scientific community.



4-5
years full time

•••

Fully taught in English

•••

Full scholarship

•••

Around
70
students

•••

24
nationalities

•••

87%
internationals

•••

6
concentrations

“ By enrolling in ESSEC PhD, you are choosing to join a stimulating intellectual environment, the ideal arena within which to create your own cutting-edge research. Through this program, you will prepare yourself for a fulfilling academic career at some of the world’s best universities and business schools. ”

ESSEC PHD PROGRAM AT A GLANCE

- 2016: 10 years Birthday of the PhD Program in its current format.
- Degrees granted: PhD (international format) and Doctorat (Accredited by the French Ministry of Higher Education and Research).
- Nested in the Nautilie building (Academic affairs) with close interaction with Departments and Faculty.
- Five years program that can be totally funded by ESSEC. Conferences and international internships financed by the program. Specific support for PhD students is offered by ESSEC Research Center, ESSEC Learning Center and IT services.
- Preparation for the job market with individual coaching.

ORGANIZATION OF THE PHD PROGRAM

THE PROGRAM IS A FULL-TIME PROGRAM IN ENGLISH AND MEETS THE HIGHEST INTERNATIONAL STANDARDS. SIX CONCENTRATIONS ARE OFFERED: “ACCOUNTING AND AUDITING”, “ECONOMICS”, “FINANCE”, “MANAGEMENT”, “MARKETING”, “OPERATIONS MANAGEMENT AND DATA ANALYTICS”. BEFORE STARTING THEIR DISSERTATION WORK, STUDENTS MUST FOLLOW A TWO-YEAR PROGRAM OF COURSES AND SEMINARS THAT ENDS WITH PRELIMINARY EXAMINATIONS AND A DISSERTATION PROPOSAL.

OVERVIEW OF THE PROGRAM

- General Requirement Courses.
- Specialized Courses and Seminars for the chosen concentration.
- Preliminary Examinations (end of second year).
- Dissertation Proposal (beginning of third year).
- Dissertation Defense (expected by the end of fourth year).

The General Requirement Courses give students an overview of the different fields of business administration.

The specialized courses and seminars in the concentrations focus on methodological issues and advanced research tools in the specific fields. They also examine theoretical developments in each field.

Success in the Preliminary Examinations in the chosen field is rewarded by the MS BAR. It is a prerequisite to enter the candidacy and dissertation phases. These phases start with the Dissertation Proposal. Finally, the Dissertation Defense takes place following authorization by the Dean of the PhD Program after recommendations from two outside examiners.

DISSERTATION SUPERVISION

Doctoral students work with one ESSEC professor who guides and directs their research. They benefit from rigorous supervision, the support of a dissertation committee, a diversified and international faculty, contacts with professors from leading universities, library research facilities and first-rate computer services. In addition, PhD students in the dissertation preparation stage are required to present their work in the “Student Research Seminar”.

DISSERTATION DEFENSE

The dissertation defense takes place when the dissertation advisor informs the Dean of the PhD Program that the objective of the research work has been achieved. The dissertation advisor, in concert with the student, invites the other members of the dissertation committee. The time of the dissertation defense is posted publicly and members of the public can attend. After this public examination, the committee recommends whether or not the PhD Degree should be awarded.

THE DEGREES

The degrees awarded are the “Mastère Spécialisé in Business Administration Research” and the “PhD in Business Administration” of ESSEC Business School. Students can also enrol for the French national doctorat and obtain a “Doctorat en Sciences de Gestion” or a “Doctorat en Sciences Economiques”.



GENERAL REQUIREMENT COURSES AND SEMINARS*

These courses/seminars give an interdisciplinary perspective on the business administration field. They allow students to cover a broad range of epistemologies and research methodologies, providing them with the main tools common to all business research disciplines. All students must take and pass examinations in the subjects covered by these courses/seminars.

SIX CONCENTRATIONS

ACCOUNTING AND AUDITING

In this concentration, students can specialize in one of the following subfields:

- Empirical Financial Accounting
- International Financial Reporting
- Auditing
- Financial Statement Analysis
- Organizational and Social Aspects of Accounting

MANAGEMENT

In this concentration, students can specialize in one of the following subfields:

- Strategy
- Organizational Behavior
- Entrepreneurship
- Management Control
- Management of Information Systems

ECONOMICS

In this concentration, students can specialize in one of the following subfields:

- Industrial Organization
- International Economics (micro or macro)
- Public Economics

MARKETING

In this concentration, students can specialize in one of the following subfields:

- Behavioral track
- Modeling track

FINANCE

In this concentration, students can specialize in one of the following subfields:

- Asset pricing and investments
- Corporate Finance
- Financial Econometrics
- Market Microstructure
- Risk Management

OPERATIONS AND DATA ANALYTICS

In this concentration, students can specialize in one of the following subfields:

- Operations Management & Operations Research
- Data Analytics

From the end of August to the end of September of year 1, students must follow five intensive courses in:

- Finance
- Marketing
- Accounting and Control
- Strategic Management
- Information Systems

(Students demonstrating a good background in these fields may be exempted from some of these courses. Exemptions are granted only by the Dean of the PhD Program after recommendation by the course professor).

The first quarter of year 1:

- Microeconomics for Business Research
- Applied Statistics
- Disciplinary Foundations of Management

The first quarter of year 2:

- Epistemology and Philosophy of Science

In addition to these courses/seminars, students must also attend:

- The Student Research Seminar:
 - Year 1: only when their own field is concerned
 - Year 2: all sessions of their concentration + the sessions of the concentration of their choice and present once
 - Year 3 and 4: all sessions of their concentration and present once
- Professional Development Workshops
- Writing Skills Seminars

Students must also participate in Department Seminars (research presentations by ESSEC professors or by invited professors from the international academic world).

** For all concentrations.
Students in the Economics and Finance concentrations have special General Requirements courses.*



“As an American, I have often been asked why I completed a PhD in France. People often do not have time to listen to all of the reasons why the ESSEC PhD Program was absolutely the best choice I could have made for myself! Modeled after a “North-American style” PhD program, the ESSEC program was everything I could have hoped for in terms of matching the rigor and quality of U.S. institutions set within an environment of cultural and intellectual diversity that is present in few places. This combination highly prepares future scholars to reach their objectives working in top institutions worldwide. That, and the care that the AA concentration put into sharing the knowledge and resources needed to ensure their student’s success, means you really can’t go wrong with this program.”

Lisa Baudot (PhD14), Assistant Professor, Kenneth G. Dixon School of Accounting, University of Central Florida.





THE ACCOUNTING AND AUDITING CONCENTRATION

BASIC PHILOSOPHY

The ESSEC PhD program in accounting and auditing is devoted to training doctoral candidates to conduct research at the highest level on questions dealing with the role of accounting and auditing. It is broadly based and offers interdisciplinary training in order to apply basic knowledge from various fields of business studies to address a variety of accounting and auditing issues.

Research in accounting and auditing attempts to address a large spectrum of questions including: - the impact of accounting information of financial market participants and other users, - the problems of information asymmetries among managers and users and the effects of managerial discretion, - the structure of incentive and monitoring systems, - the difficulties in reporting on increasingly complex financial transactions and instruments and their valuation effects, - the convergence of national financial reporting systems towards an international standard of reference and its impact on capital markets, - the role of auditing and the economic effects of regulation of accounting information.

COURSES AND SEMINARS COVER THREE COMPONENTS

- General Requirements (see above)
- Advanced Courses and Seminars
- Advanced Courses and Seminars in accounting and auditing

ADVANCED COURSES/SEMINARS

- Econometrics
- Game Theory
- Quantitative Research Methods in Management

ADVANCED COURSES/SEMINARS IN ACCOUNTING AND AUDITING

- Corporate Finance and Governance
- Empirical Research in Financial Accounting
- Readings on contemporary accounting and auditing research*
- Auditing and Regulation

ELECTIVE COURSES

- Three electives to be taken among ESSEC PhD courses



THE ECONOMICS CONCENTRATION

BASIC PHILOSOPHY

The Economics concentration of the PhD Program provides doctoral students with a solid grounding in economic theory, as well as the analytical and statistical tools needed to conduct high-quality theoretical and empirical research. This program is run jointly with the Economic department at the University of Cergy-Pontoise, one of the leading French universities in Economics. It aims to develop multiple skills, notably the mastering of the concepts of economic theory and analysis; the methodology of model building at the highest scientific level; and data analysis using advanced econometric methods and tools.

Courses and seminars cover three components:

- General Requirement Courses and Preliminary Course/Seminars
- Advanced Courses and Seminars
- Subfield Electives

** Another asset of the program: PhD students will obtain a Master in Research awarded jointly by ESSEC Business School and the University of Cergy-Pontoise (UCP) after successful completion of the first year of studies in our Ph.D. Program.*

SUBFIELDS

In this concentration, students can specialize in any of the following main areas:

- Industrial Organization
- International Economics (with micro or macro emphasis)
- Public Economics.

OVERVIEW OF THE PROGRAM

Compulsory courses across subfields:

Preliminary courses

- Mathematics for Economics
- Choice and Decision Theory

Advanced courses/seminars (first quarter of Year 1)

- Microeconomics I
- Macroeconomics I
- Econometrics
- Applications of Econometrics I

Advanced courses/seminars (Year 1 and 2)

- Microeconomics
- Macroeconomics
- Micro-Econometrics
- Time Series Analysis
- Research Seminar 1 : Professors Seminar
- Research Seminar 2 : Student Seminar
- Reading Seminars on Specialized Subjects
- Applications of Econometrics II

Compulsory courses in each subfield:

Industrial Organization

- Industrial Organization
- Empirical Industrial Organization

International Economics (microeconomics or macroeconomics)

- International Finance
- International Trade

Public Economics

- Public Economics
- Labor Economics

Electives

For each subfield of specialization, students chose five electives from the following:

- Compulsory courses from other specializations
- Economics of Information
- Corporate Governance
- Numerical Methods
- Monetary Economics
- Environmental Economics
- Economics of Education
- Health Economics
- Financial Economics

FACULTY

The ESSEC Economics department is affiliated with THEMA (Center for Research in Applied Economics). THEMA is one of the best research centers in economics from the French National Center of Scientific Research (CNRS) and it is based in Cergy-Pontoise, between the University of Cergy-Pontoise and ESSEC.

The ESSEC Economics faculty regularly publishes articles in the highest-level international academic reviews as well as books, chapters and economic reports (a total of 150 publications between 2008 and 2013). ESSEC professors work in different areas: applied microeconomics; industrial organisation; game theory; monetary economics; macroeconomics; international trade and finance; international institutional economics; and health economics. ESSEC professors are connected with the academic community by doing research with colleagues from all over the world, regularly participating in academic conferences and being board members of international journals.





The Dark Side of Proactivity

Mouna EL MANSOURI, Karoline STRAUSS, Doris FAY, Julia SMITH

Our Research Question...

What are the consequences of proactivity on working memory?

Our Methodology...

A daily diary design

Over 5 working days

Time at work → Memory task → Survey

What we Know...

Proactivity:

- More things to be handled and recalled
- Shift in attention and priorities gaining more salience → less room in memory for other issues
- Likely to be accompanied with stress → higher levels of cortisol, a biomarker of psychological stress

Working Memory:

- Limited memory resource distributed flexibly among all items to be recalled
- Adverse effect of stress on cognitive functioning

Task Conflict:

- Disagreement between organizational members on work-related goals
- Increased number of issues to deal with (coordination, planning, etc.)

Attentional resources' depletion?

Preliminary Results...

Two-asset Regression

Memory of Task Conflict

Our hypotheses...

H1: The higher the level of daily individual task proactivity, the lower the level of performance in end of the day memory tasks.

H2: The negative impact of daily individual task proactivity on performance in end of the day memory tasks is enhanced by high levels of task conflict.

Our Contribution...

- Consequences of Proactivity on Wellbeing
- Day-to-day dynamics of workplace experiences
- Impact of Proactivity on Working Memory

COURSES AND SEMINARS

Preliminary courses

- Financial Theory
- Mathematics for Economists
- Choice and Decision Theory

General requirements

- Macroeconomics
- Microeconomics I
- Econometrics I

Advanced courses and seminars - year 1

- Discrete Time Asset Pricing
- Continuous Time Asset Pricing
- Corporate Finance
- Microeconometrics
- Behavioral Finance

Advanced courses and seminars - year 2

- Empirical Asset Pricing
- Empirical Corporate Finance
- Microstructure of Financial Markets

Research seminars of the Finance department
Brownbags of the Finance department

Electives - 2 among

- Introduction to Decision Theory
- Time series
- Macroeconomics I & II
- Microeconomics II

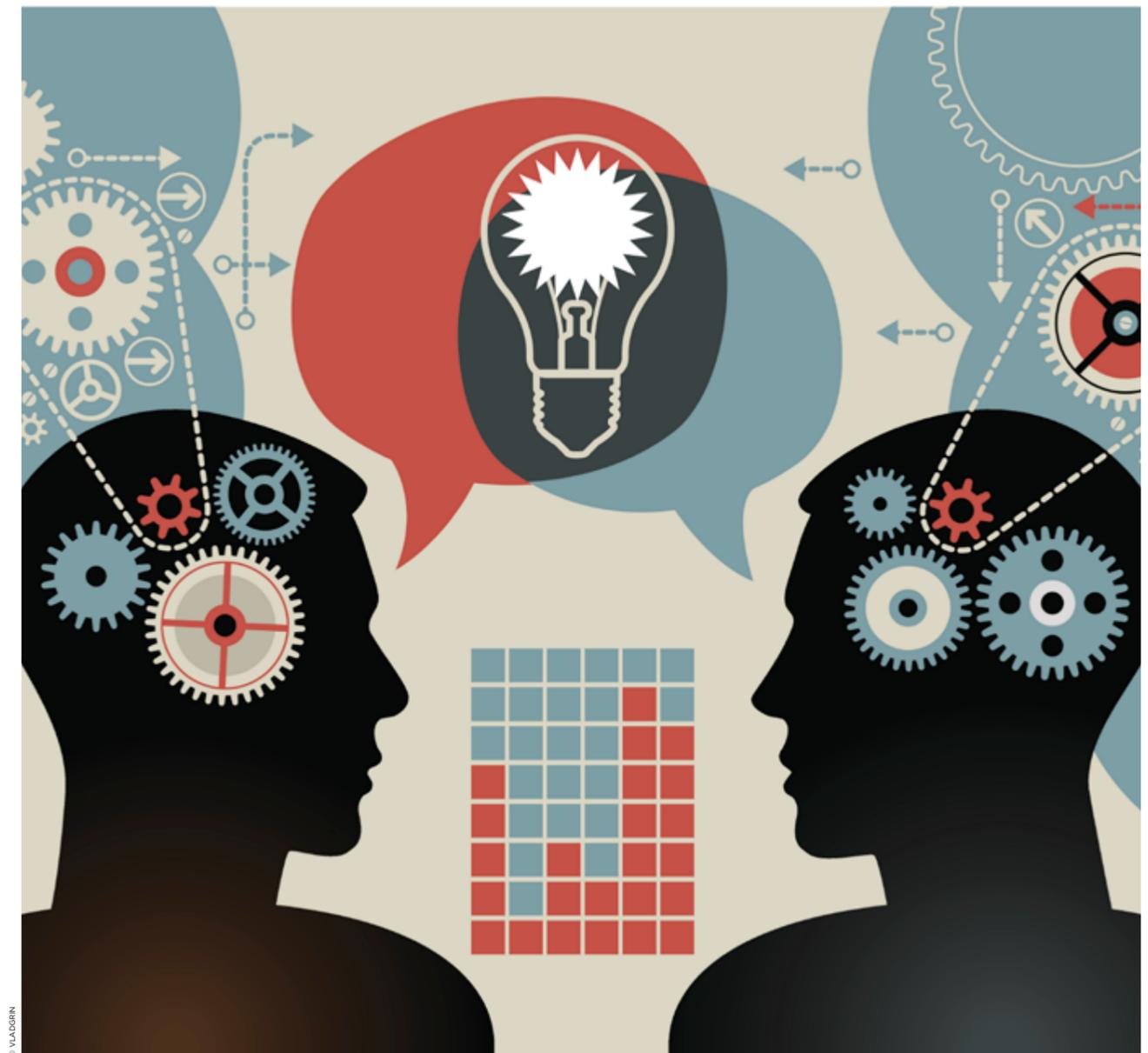
THE FINANCE CONCENTRATION

BASIC PHILOSOPHY

The PhD program in finance aims to train innovative scholars, able to produce top-quality research in finance. To achieve this objective, students need to develop deep understanding of contemporaneous finance and related fields, demonstrated through the successful completion of required courses and a comprehensive exam. Further, they need to show their skills in producing original research through a second-year paper and a dissertation. Students are required to participate in the academic activities of the finance department (seminar, brownbag, conferences) and they will have the possibility to cooperate with the faculty both at the Paris and the Singapore campuses.

“ Doing a PhD is a rich and challenging experience for me. There have been ups and downs on the road, but the faculty members are always willing to extend their help. Also, as an international student, I love the cultural diversity at ESSEC. ”

**Runqing Wan (PhD19),
Assistant Professor, Capital
University of Economics
and Business, Beijing**





ADVANCED COURSES/SEMINARS

(For all students of the Management concentration)

Fundamentals of Management

- Classics of the Social Sciences
- Classics of Administration and Management Theory
- Contemporary Management Theory

Qualitative Research Methods in Management

- Approaches
- Modes of Analysis and Techniques

Quantitative Research Methods in Management

- Methodology and Design
- Multivariate Analysis

Econometrics

Electives (Seven electives to be taken among ESSEC PhD courses)

SUBFIELDS IN MANAGEMENT

Organization Behavior:

- International management, institutions and regulations
- Human resources strategies and organizational performance
- Identity processes in individuals, groups and organizations
- Organizational change and learning
- Business history, ethics and organizational governance
- Network analysis.

Strategy/Entrepreneurship:

- Corporate and business strategy
- Strategic management processes
- Entrepreneurship
- Game theory
- Industrial organization and economics

Management Control:

- Types of control and performance management systems
- Planning, budgeting, information systems and learning
- Management accounting change and innovation
- Social and psychological approaches in management accounting research

Information Systems:

- Modeling, designing, developing and evaluating IT applications
- Knowledge management
- Data warehousing and decision support
- Information systems in the organizational context
- Social studies of information system

THE MANAGEMENT CONCENTRATION

BASIC PHILOSOPHY

The ESSEC PhD program in Management provides comprehensive coverage of an extremely broad range of human and strategic issues, relating them to major contemporary questions of sustainable organizational performance. Grounded in the research traditions of the fundamental disciplines of Economics, Philosophy, Psychology and Sociology, the program proposes in-depth specialization in one of the following subfields: Organizational Theory and Behavior, Strategy, Human Resource Management, Information Systems, Management Control. The PhD Program in Management provides an all-round education covering both methodological and theoretical debates – familiarity with the full range of qualitative and quantitative techniques is coupled with extensive analysis of the major intellectual paradigms in the social sciences.

“ As I joined the ESSEC PhD program, I was inspired by the great diversity of backgrounds and personalities that I found both among faculty members and fellow PhDs. This diversity broadened my horizon, enriched my thinking and made me a more confident aspiring scholar. ”

Caecilia Drujon D'Astros,
PhD candidate in
Management Control.





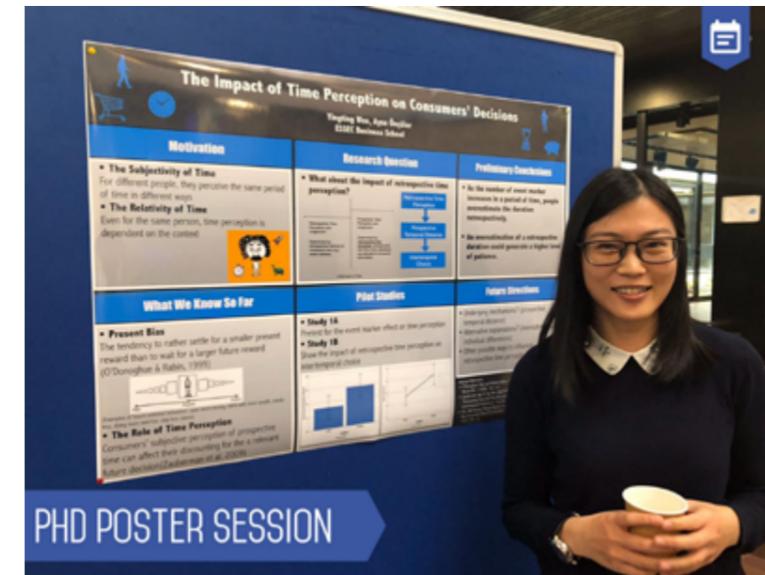
OVERVIEW OF THE PROGRAM

- Fundamentals of Marketing Research
 - Consumer Behavior
 - Marketing Strategy
 - Qualitative Research Methods in Marketing
 - Multivariate Statistics in Marketing
 - Experimental Methods
 - Reading Seminar in Marketing 1
 - Marketing Models 1
 - Econometrics
- Electives
(4 to be taken over a two-year period)



“The PhD program at ESSEC is both a challenging and an exciting prospect. As an aspiring scholar, I have gained a unique perspective on business through rigorous coursework and close research collaboration with renowned faculty.”

Alina Ferecatu (PhD 14), Assistant Professor, Department of Marketing Management, Rotterdam School of Management, Erasmus University, Rotterdam.



THE MARKETING CONCENTRATION

BASIC PHILOSOPHY

The ESSEC PhD program in Marketing is devoted to training doctoral candidates to conduct rigorous and impactful research. The program accommodates candidates with both quantitative and qualitative orientations, and provides them with the tools, concepts, and theories that are necessary for an academic career in marketing. A key objective of the program is to nurture the students' scholarly interests within a collegial environment and encourage interactions and exchanges with the faculty and other PhD students.

The Marketing Department comprises world-renowned scholars who have demonstrated excellence in research. The faculty regularly publishes in the most highly regarded marketing journals such as Journal of Marketing, Journal of Marketing Research, Marketing Science, Journal of Consumer Research, and Management Science. The PhD students actively participate in conferences and research seminars organized by the department. To support and nurture students' research interests, a wide range of statistical software, specialized research databases, and access to both the student subject pool and state-of-the-art ESSEC Experimental Research Lab are provided to the students in the program.

The program offers an in-depth specialization in one of the following sub-fields: Behavioral track and Modeling track.





THE OPERATIONS AND DATA ANALYTICS CONCENTRATION

BASIC PHILOSOPHY

ODA is an interdisciplinary concentration of ESSEC Business School PhD Program. It provides students a structured education in quantitative research methods and management science. It covers all aspects of business analytics: descriptive, predictive and prescriptive analytics. It focuses on theoretical, empirical and methodological research including computational aspects of data science and decision models. The students should learn to design new models and methods, possibly applied to economics, marketing, digital business, finance, risk management, operations, supply chain management. The period of courses lasts for 1,5 year, with Research Apprenticeship Modules (RAMs) that start in the first year (under the supervision of a Professor) and aim at producing a first research paper before the Dissertation Proposal, which takes place at the end of the second year.

The concentration has two specializations:

- **Operations Management & Operations Research (OM/OR)**

- **Data Analytics (DA)**

(Statistics, Big Data, Econometrics and Risk)

Each applicant has to choose a single specialization (OM/OR or DA) in the application file BEFORE entering the program, explaining her specific motivation for the selected specialization. There are open positions in both specializations each year.

THE TWO SPECIALIZATIONS: OM/OR AND DA

The two specializations have a few courses in common, but are well separated in terms of content with specific introductory and advanced courses in each field.

■ Operations Management & Operations Research (OM/OR)

Operations Management not only concerns the traditional creation, production, and delivery of products and services, but it takes a broader view that comprises supply chain management (SCM), logistics, purchasing management, project management, and new product development. All these fields have a strong operational focus and a potential impact on the successful management of operations. Recent research interests of our faculty include: Environmental management and monitoring, Humanitarian logistics and relief operations, coordination in SCM, New product development, Digital operations.

Operations Research aims at solving optimization problems for operations planning and management. Our faculty develops new models and methods that can apply to production planning, transportation and routing, facility location, network design, sustainable operations, with a focus on uncertainty. Recent research interests of our faculty include: Advanced Decision Theory, Continuous-time Dynamic Games, Optimal control, Robust optimization, Selection problems with choice models, Bilevel programming, Decomposition methods

This specialization is hosted by the **OMOR** research cluster comprising professors of the **IDS** and **OM departments**. The courses in OM/OR cover the following topics: introductory optimization methods (Linear Programming, graphs, dynamic programming), advanced optimization methods (decomposition methods, Column generation, Benders decomposition, cutting plane methods, robust optimization), technology management and new product development, sustainable operations, optimal control, game theory, dynamic games, dynamic methods, advanced decision theory, SCM, applied statistics, econometrics, simulation for operations management. Coding skills are important to implement models and methodologies.

■ Data Analytics (DA)

Data Analytics combine mathematical, statistical and computer tools to solve economics and business problems. The approach may involve e.g. model building, analysis of big data, empirical testing of theories, risk management, stochastic processes, econometrics and forecasting.

This subfield is hosted by the **IDS department** and the **CREAR** research center.

Recent research interests of our faculty include:

- Agent based models of learning
- Multivariate Statistics
- Predictive Path Modeling
- Advanced econometrics models
- Assessment of Climate Change
- Extreme Value Theory
- Risk analysis & Risk Management

The courses in the DA specialization cover the following topics: advanced statistics, time series analysis, forecasting, stochastic processes, introductory and advanced econometrics, big data analytics, quantitative risk management, statistical modelling. Several softwares and programming languages are also presented to the students.

The PhD students in this DA specialization should be able at the end of the program to combine two skills: a) design and develop new models and methods for statistics and econometrics with proven analytical properties, and b) apply these methods to applications in economics, finance, marketing, operations or business as a whole.



APPLICATIONS AND ADMISSIONS

ADMISSION REQUIREMENTS AND HOW TO APPLY

Candidates need to possess the ability to engage in high-quality research and show a real vocation for teaching. They must also demonstrate a solid educational background. Applicants should have an outstanding (four-year) Bachelor's degree (BA, BSc or equivalent) or higher qualification (a Master's degree would be an asset). French students can apply with four or more years of post-secondary studies ("Bac+4"). European students with a Master's in Research (MRes) are also welcome to apply – successful applicants would gain exemption from certain courses/seminars and depending on their background, would follow a sequence of courses/seminars covering approximately one year instead of two. The program is open to top students from Business and Economics schools, but also from fields such as Engineering, Hard Sciences, Psychology, Sociology, Philosophy, etc.

APPLICATION PROCEDURE

The application materials include:

- The application form indicating university degrees and grades.
- Three letters of recommendation from faculty or research scholars.
- GMAT (Graduate Management Admission Test) or GRE (Graduate Record Examination) scores. These tests are administered by the ETS (Educational Testing Services, Princeton, USA) and can be taken at various places around the world. The ETS code center for the ESSEC Ph.D. Program is X 6R-91-50 (GMAT) and 0839 (GRE). Information about GMAT and GRE can be found on www.gmat.com and www.gre.com
- As the program is in English, applicants whose native language is not English are required to take the TOEFL (Test of English as a Foreign Language). The TOEFL code for the Ph.D. program is 0045. Information about TOEFL can be found on www.toefl.com
- The application pack can be downloaded from www.essec.edu/business-school-paris-program/doctoral-program/phd or requested from the Ph.D. Program at ESSEC Business School (see back page for address).
- Application fees: none.

FULL FUNDING

Doctoral students may be eligible for financial aid according to need and merit:

- Tuition fees waiver.
- Tuition fees waiver with a living allowance (23,000 euros - non taxable - for a full year of study). These financial aids are available during the four years of study. A fifth year can be funded by a combination of scholarship and teaching contract. The financial support is conditional upon students' progress and performance, and is reviewed annually.
- External aid (e.g. French Government scholarships for foreigners, foreign government scholarships).
- Bank loans.

DEADLINES

Applicants should normally apply before:

- 1st session: January 15th
- 2nd session: May 1st

TUITION FEES

The tuition fees for the PhD program amount to 10,000 euros per year the first two years. For students from the European Union, reduced tuition fees of 5,000 euros per year apply. After the first two years, tuition fees for students in residence amount to 2,400 euros per year; an exceptional waiver of half this amount applies for periods of non-residence.

CONFERENCES

CONFERENCES

Fostering openness to the international environment, both academic and economic, is an important objective of our PhD students. They meet students from other institutions, as well as professors from a variety of international backgrounds, either directly or through specialized academic conferences; at these events they regularly present their research, in order to get feedback and become familiar with the most current work in the scientific community. Our students, with the financial support of the program, make regular presentations at numerous prestigious conferences such as:

- AOM
- AMA
- EGOS
- MSOM
- AFC Annual Congress
- EAA Annual Congress
- EMAC
- EFMA
- INFORMS
- SCANCOR
- POMS Annual Conference
- European Conference on Operational Research EURO

OVERSEAS INTERSHIPS

Apart from participating to international conferences, students are encouraged to spend time (from 3 to 6 months) in top overseas institutions. Some of them went to:

- Cardiff University, UK
- NHH Norwegian School of Economics, Norway
- INSEAD, Singapore
- University of Virginia, USA
- University of Stanford, USA
- University of Iowa, USA
- University of Florida, USA
- University of Alberta, Canada
- Houston University, USA
- University of Toronto, Rottman School of Mgt, Canada
- University of South Carolina, USA
- Penn State University, USA
- Tilburg School of Economics and Management, The Netherlands
- NUS, Singapore
- Emory, USA



"I never had a true pre-disposition towards academia until I joined the Ph.D. programme. It was only at ESSEC that I discovered how privileged we are in this profession: we benefit from intellectual stimulation, opportunities to solve problems and access to a very elite and tight-knit community. I learned all these things at ESSEC from an exceptional group of faculty, students and staff, a group passionate about and engaged in the work that they do. Such passion is infectious; I'm sincerely grateful for a wonderful five years that has set the foundation for the rest of my career."

**Joel Bothello (PhD14),
Assistant Professor, The John Molson
School of Business,
Concordia University, Montréal.**



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Period of registration: 30 June 2017 - 29 June 2023
Committee of Private Education (CPE) is part of SkillsFuture Singapore (SSG)

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