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Last update : September 2024  
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## Current position

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Maître de conférences in applied mathematics at the [Aix-Marseille School of Economics](#).

## Research Activities

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### Main research interests.

- ★ **Economic Theory** : Spatial competition, Hotelling games, Political economy.
- ★ **Game Theory** : Repeated games, Incomplete information, Equilibrium efficiency.
- ★ **Mathematical finance** : Stochastic processes in finance, Pricing, Risk aversion.
- ★ And others : Approachability, Congestion games...

### Research articles.

- HOTELLING GAMES ON NETWORK : EFFICIENCY OF EQUILIBRIA.  
with Marco Scarsini. *Mathematics of Operations Research, Volume 44, Issue 1*.  
[Paper](#) - [Slides](#) - Outreach : [Dialogues économiques](#).
- PURE HOTELLING GAMES WITH NON UNIFORMLY DISTRIBUTED CONSUMERS.  
*International Journal of Game Theory, 84-1, pages 33-59*.  
[Paper](#) - [Slides](#).
- APPROACHABILITY WITH CONSTRAINTS.  
with Eden Kuperwasser, Orin Munk, Eilon Solan and Avishay Weinbaum, *European Journal of Operational Research, Volume 292, Issue 2*.  
[Paper](#) - [Slides](#).
- LOCATION GAMES WITH REPUTATIONS.  
with Amaury Francou, *Games and Economic Behavior, Volume 142, Pages 17-32*.  
[Paper](#) - [Slides](#) - Outreach : [Newsletter \(page 10\)](#).
- PRICE DYNAMICS ON A RISK AVERSE MARKET WITH ASYMMETRIC INFORMATION.  
with Bernard De Meyer, Revise and resubmit at *Games and Economic Behavior*.  
[Paper](#) - [Slides](#) - Outreach : [Les Echos](#) or [5&5](#).
- SPATIAL COMPETITION WITH UNIT-DEMAND FUNCTIONS.  
with Karine Van Der Straeten and Jörgen Weibull, submitted for publication.  
[Paper](#) - [Slides](#).
- STRATEGIC FLIP-FLOPPING IN POLITICAL COMPETITION.  
with Alberto Grillo and Yevgeny Tsodikovich, Revise and resubmit at *International Economic Review*.  
[Paper](#) - [Slides](#).
- A MULTI-ASSET MARKET WITH ASYMMETRIC INFORMATION AND RISK AVERSION.  
with Bernard De Meyer.  
[Paper](#) - [Slides](#).
- POPULARITY IN LOCATION GAMES.  
with Marc Schröder, submitted for publication.  
[Paper](#) - [Slides](#).
- PROBABILISTIC HOTELLING GAMES (WORK IN PROGRESS).  
[Abstract](#).

## Education and affiliations

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- 2017 -** AMSE, UNIVERSITÉ D'AIX-MARSEILLE.  
Maître de conférences (Assistant professor with tenured).
- 2016 - 2017** IAST, TOULOUSE.  
Post-doctoral fellowship, IAST program at the Toulouse School of Economics.
- 2015 - 2016** TEL-AVIV UNIVERSITY.  
Post-doctoral fellowship, School of Mathematical Sciences.
- 2011 - 2015** CES, UNIVERSITY PARIS 1.  
PhD Student advised by *Bernard De Meyer* and Teaching assistant for the UFR 27 (Mathematics and Computer Sciences) of the Paris 1 University.
- 2010 - 2011** UNIVERSITY PARIS 1.  
Master Sc. MMMEF, with first class honours.
- 2007 - 2010** PARIS 11 UNIVERSITY - ORSAY.  
Bachelor's degree in pure and applied mathematics, admitted to the Agregation of mathematics in 2010.

## Presentations and research invitations

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### International conferences.

2024 : PET, LAGV, 2023 : ASSET, LAGV, 2022 : 7<sup>th</sup> Workshop on Stochastic Methods in Game Theory, LAGV, 2019 : 19<sup>th</sup> SAET conference, 2017 : 28<sup>th</sup> International Conference on Game Theory, Stochastic Methods in Game Theory, PIREN 2017, 2016 : YEM2016, GEL 2016, Workshop Games and Optimization, The 8th Israeli Game Theory conference, 2015 : Congestion games Workshop and Stochastic games workshop, 26<sup>th</sup> International Conference on Game Theory, 2014 : 14<sup>th</sup> SAET conference, 2013 : Stochastic Methods in Game Theory, OSGAD day.

### Invited seminars.

2024 : GATE, 2023 : Paris 1, LEMMA, MDOD, Game Theory IHP, 2022 : GTI Internal, Informal talks, 2020-2021 : online presentations, 2019 : GSBE seminar, 2018 : PGMO DAYS, Game Theory IHP, Paris 1, Luiss seminar series, 2017 : Eco-lunch Seminar, IMT, Lemma, CIGNE 2017, 2016 : Technion, Bar-Ilan, 2015 : Tel-Aviv, Technion, Hebrew University of Jerusalem, 2014 : Tel-Aviv, Maastricht, SUTD, Paris 1.

### Invited Research Visit.

2018 : Toulouse School of Economics, LUISS, Stockholm School of Economics, 2017 : Institute of Science and Technology of Vienna, 2015 : Institute for Mathematical Sciences, Israeli Universities (Technion, Tel-Aviv-University, HU of Jerusalem), SUTD, 2013 : SUTD.

### Communication.

- 2024** Outreach article in *Dialogues économiques* (ongoing).
- 2023** Outreach article in *Research Highlights*.
- 2020** Outreach article in *Dialogues économiques*.
- 2016** Outreach article in *Les échos* and *5&5*.

## Teaching

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- 2017 -** FACULTÉ D'ÉCONOMIE ET DE GESTION, UNIVERSITÉ D'AIX-MARSEILLE.  
Lecturer (at least 192 hours / year).  
▷ *Game Theory in Economics (Master 2)*, *Microeconomics (L3)*, *Game Theory (L2)*, *Game Theory (PhD course)*, *Mathematics 1 - Analysis (L1)*, *Algebra and Differential equations (L2)*, *Market finance (L3)*, *Mathematical finance (Master 1)*, *Game Theory (Master 1)*, *Research questions (Master 2)*, *Political Economy (L2)*.

- 2020 – 2023**      **ÉCOLE CENTRALE MARSEILLE.**  
Lecturer.  
▷ *Strategic behavior, second year students of the engineering school.*
- 2012 – 2015**      **UNIVERSITÉ PARIS 1.**  
Teaching Assistant.  
▷ *Probability and finance Master MOSEF.* ▷ *Computer Language C.* ▷ *Imperfect competition in microeconomics.* ▷ *Topology and differential calculus.*
- 2009 – 2015**      **OTHER TEACHING.**  
▷ *Magistère Banque Finance, Université Panthéon Assas Lecturer : Stochastic Models applied to finance (Master 1).*  
▷ *École Nationale des Ponts et Chaussées, TA : Game theory and Decision theory.*  
▷ *École Supérieure d'Ingénieurs en Électronique et Électrotechnique, Numerical Analysis and optimization.*  
▷ *Lycée Saint Louis et Lycée Janson de Sailly, Colles - Weekly Oral examinations.*

## Academic activities

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### Teaching Responsibilities.

- 2020 –**              **HEAD OF THE FIRST YEAR OF MAGISTÈRE AMSE PROGRAM (~ 40 STUDENTS).**  
Select students, manage teachers, advertise the track, supervise and evaluate student internships.
- 2024 –**              **ELECTED MEMBER OF THE UFR COUNCIL OF THE FACULTY OF ECONOMICS AND MANAGEMENT (FEG).**
- 2020 –**              **HEAD OF THE POSTDOC PROGRAM (~ 10 POSTDOCS).**  
Facilitate scientific integration, create and organize Postdoc Day & Welcome Day (yearly 1-day conferences).

### Seminars & Conferences organization.

- 2024**                **CO-ORGANIZATION OF THE MEDITERRANEAN GAME THEORY SYMPOSIUM (MGTS), 50 SPEAKERS, 4 CONFERENCE DAYS, AMSE, Marseille.**
- 2018 – 2024**      **ORGANIZATION OF THE THEORY SEMINAR (GTI), AMSE, Marseille.**
- 2018 – 2021**      **ORGANIZATION OF THE ECO-LUNCH SEMINAR, AMSE, Marseille.**
- 2012 – 2015**      **ORGANIZATION OF PHD SEMINARS : IHP GAME THEORY (2014,2015), DOCTORISIMES IN PARIS 1 (2012,2013).**

### Recruitment committee.

- 2023-24**            Member of the committee to recruit a Maître de conférences CDD in Paris 2.
- 2022-23**            Member of the committee to recruit a Maître de conférences CDD in Paris 2.
- 2021-22**            Member of the committee to recruit a Maître de conférences CDD in École centrale.
- 2021-22**            Member of the committee to recruit an Assistant Professor and 3 postdocs in AMSE.
- 2020-21**            Member of the committee to recruit an Assistant Professor and 3 postdocs in AMSE.
- 2019-20**            Member of the committee to recruit 3 postdocs in AMSE.
- 2018-19**            Member of the committee to recruit 2 Assistant Professors and 4 postdocs in AMSE.  
Member of the committee to recruit a Maître de conférences in Paris 1.

### Students' supervision.

PhD students : Alexandre Arnout (2023–).

### Research internships.

- 2024**                Sedjro Akonakpo (MAG1), Loukmane Boulanki (MAG1).

- 2023** Elie Godwin Aidasso (Pre-PhD), Ashraf Alassani (M2 Mathématiques), Ale Ouattara (MAG1), Nathan Konan (MAG1), Kablan Koffi (M1).
- 2022** Nicolas Guillotin (MAG1), Bertrand Kouomegne Tchienguing (MAG1), Léa Aumagy (MAG1), Yann Harold N'Guessan (M2 FQA).
- 2021** Nada Amini (École des Mines de Saint-Etienne), Ulrich Aiounou (MAG2), Matilda Baret (M1), Yedidia Agnimo (MAG1), Hugues Roisse (MAG1) .
- 2020** Lewis Macé (École des Mines de Saint-Etienne), Henrique Bueno (École Centrale Marseille), Amaury Francou (École des Mines de Saint-Etienne) (M1, 2018), (Master 2, 2019), (Research assistant, 2021).

#### Peer-Reviews.

Annals of applied probability, Annals of Economics and Statistics, European Journal of Operational Research, Games and Economic Behavior, International Journal of Game Theory, Journal of Applied Probability, Mathematical Social Sciences, Mathematics of Operations Research, Operations Research Letters, Quarterly Journal of Operations Research, RAIRO - Operations Research, 4OR.

Evaluator for NSF and ISF (national research grants).

#### **Others**

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- ▷ *Cultural activities in the penitentiary of Meaux, with the association [Genepi](#).*
- ▷ *Organization of a summer school in Lomé, Togo with [Animath](#).*
- ▷ *Organization of a weekly mathematical school in Lycée Louis le Grand (2014-2015).*
- ▷ *Talks on the application of Game Theory in Biology, and organization of a [Prisoner's Dilemma Tournament](#), ENS Ulm (2014).*
- ▷ *Chairman of the 2021 baccalaureate jury [Lycée Fourcade](#).*