

# Tristan GARREC

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French nationality  
Born March 17, 1992

*Postdoctoral researcher in machine learning  
and game theory*

## Education & Positions

- 2019 – 2020 **ENS Paris-Saclay & EDF**, *Postdoctoral researcher*.
- 2018 – 2019 **Université Paris Dauphine**, *Research and teaching assistant*.
- 2015 – 2019 **Toulouse School of Economics**, *Ph.D. in applied mathematics*.
  - Ph.D. Thesis: *On dynamic games: stochastic games, search games and information provision*, under the supervision of Pr. Jérôme Renault
- 2014 – 2015 **Sorbonne Université & École Polytechnique**, *Master Mathematical Modeling*, Majoring in Optimization, Game Theory and Dynamics, graduated summa cum laude.
  - Master's Thesis: *On the operator approach in repeated games*, under the supervision of Pr. Rida Laraki and Pr. Olivier Gossner, École Polytechnique
- 2012 – 2015 **École Nationale Supérieure de Techniques Avancées – ENSTA Paris**, *Grande École*, Majoring in Optimization, Control and Operations Research.
  - Research project: *Sparse optimization problems*, under the supervision of Pr. Amir Beck, Israel Institute of Technology – Technion
- 2010 – 2012 **Lycée Henri IV Paris**, *Classe Préparatoire aux Grandes Écoles*, Mathematics and Physics.

## Research papers

- Continuous Patrolling and Hiding Games**, European Journal of Operational Research 277 (2019) 42-51.
- Communicating Zero-Sum Product Stochastic Games**, Journal of Mathematical Analysis and Applications 477 (2019) 60-84.
- When Sally Found Harry: A Stochastic Search Game**, with Pr. Marco Scarsini, submitted.
- Dynamic Information Provision with Observed Return on Investment**, with Pr. Jérôme Renault, in progress.

## Presentations

- 2019 LSE - Warwick Workshop on Search Games, *London*  
Congrès SMAI 2019, *Guidel Plages*  
Workshop on Theory and Algorithms in Graph and Stochastic Games, *Mons*
- 2018 PGMO Days, EDF'Lab, *Paris-Saclay*  
Université Paris Dauphine, CEREMADE Ph.D. seminar, *Paris*  
Aix-Marseille School of Economics, Interaction seminar, *Marseille*  
9th International Workshop on Applied Probability, *Budapest*  
Roman Games 2, *Università La Sapienza, Rome*  
SMAI MODE Days, Short talk & poster, *Autrans*
- 2017 LUISS, Department of Economics and Finance seminar, *Rome*  
Workshop on Dynamic Games: discrete and continuous time, *Fréjus*  
Summer School on Network Theory, *Roscoff*  
Ph.D. Game Theory Seminar, *Institut Henri Poincaré, Paris*

Workshop on Search Games and Rendezvous, *WBS Shard Campus, London*  
6th Workshop on Stochastic Methods in Game Theory, Short talk & poster, *Erice*  
2016 Ph.D. Game Theory Seminar, *Institut Henri Poincaré, Paris*  
2015 Ph.D. Game Theory Seminar, *Institut Henri Poincaré, Paris*

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## Research stays

2017 – 2018 **LUISS, Rome**, Invited by Pr. Marco Scarsini, 2 months.

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## Teaching

2018-2019 **Université Paris Dauphine**, *Teaching Assistant*.

- Differential calculus and optimization
- Real analysis

2015-2018 **Toulouse School of Economics**, *Teaching Assistant*.

- Game theory
- Linear algebra and real analysis, *oral exams*
- Linear algebra for economists
- Real analysis for economists

2016-2018 **Université Paul Sabatier**, *Teaching Assistant*.

- Combinatorics and graph theory, *oral exams*
- Hippocampe maths, *introducing high school students to mathematical research*

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## Referee reports

Annals of Operations Research, European Journal of Operational Research, International Journal of Game Theory, Journal of Applied Probability