

# Jean Cazalis

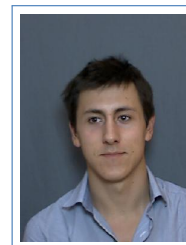
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## Education

- 2018–... **Ph.D in Applied Mathematics**, *CEREMADE*, Université Paris-Dauphine, Paris.  
– Dissertation title: « Symmetries and topology in nonlinear periodic quantum systems: the example of graphene ».  
– Dissertation advisor: Mathieu Lewin.
- 2017–2018 **Master's degree**, *Applied Mathematics*, Université Pierre et Marie Curie, Paris.
- 2015–2017 **Master's degree**, *Mathematics for Higher Education Teaching*, École Normale Supérieure de Cachan, Cachan.
- 2014–2015 **License's degree**, *Mathematics*, École Normale Supérieure de Cachan, Cachan.
- 2014–2018 **Student at the École Normale Supérieure de Cachan**.

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## Research internships

- 2018 **Research internship**, *Chair of Analysis and Applied Mathematics*, École Polytechnique Fédérale de Lausanne, Lausanne.  
– Dissertation title: « Null controllability for the heat equation via backstepping approach »,  
– Dissertation advisor: Hoài-Minh Nguyễn.
- 2016 **Research internship**, *Institut de Mathématiques de Bordeaux*, Université de Bordeaux, Bordeaux.  
– Dissertation title: « Inverse problems and sparse approximation »,  
– Dissertation advisor: Charles Dossal.
- 2015 **Research internship**, *Centre de Mathématiques et de Leurs Applications*, École Normale Supérieure de Cachan, Cachan.  
– Dissertation title: « Construction and analysis of molecular dynamical signatures in molecular dynamics simulation »,  
– Dissertation advisors: Alain Trounev (CMLA), Luba Tchertanov (BiMoDyM).

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## Articles

- [1] Jean Cazalis. The diatomic Hartree model at dissociation. *ArXiv e-prints*, 2021. (preprint, [arXiv:2109.14940](https://arxiv.org/abs/2109.14940))

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## Teaching

- 2020–2021 **Tutorials classes**, *Université Paris-Dauphine*, Paris.  
Tutorial classes in analysis (second year).
- 2019–2020 **Tutorials classes**, *Université Paris-Dauphine*, Paris.  
Tutorial classes in probability (first year), practical work on computer using Python in numerical analysis (second year), tutorial classes and practical work on computer using Python in optimization (third year).
- 2018–2019 **Tutorials classes**, *Université Paris-Dauphine*, Paris.  
Tutorial classes in analysis (first year) and practical work on computer using Python in numerical analysis (second year).
- 2017–2018 **Oral examiner**, *Lycée Saint-Louis*, Paris.
- 2017–2018 **Oral examiner**, *Lycée Michelet*, Vanves.

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## Contributed talks

- July 20<sup>th</sup> **Summer School on Current Topics in Mathematical Physics**, *Universität*  
 2021 *Zürich*, Institut für Mathematik.  
 The diatomic Hartree Model at Dissociation.
- November 26<sup>th</sup> **2<sup>nd</sup> Meeting ERC MDFT**, *Université Paris-Dauphine*, CEREMADE.  
 2020 Hartree Model at Dissociation.

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## Participation to events

- August 2–7 **International Congress on Mathematical Physics**, *International Conference*  
 2021 *Centre Geneva*, Geneva, Switzerland.
- July 29–31 **Young Researchers Symposium**, *University of Geneva*, Geneva, Switzerland.  
 2021
- July 19–23 **Summer School on Current Topics in Mathematical Physics**, *Universität*  
 2021 *Zürich*, Zürich, Switzerland.
- March 22–26 **Gran Sasso Quantum Meetings : From Equilibrium Phenomena Towards**  
 2021 **Open Quantum System**, *Gran Sasso Science Institute*, L'Aquila, Italia.
- February 5–7 **Quantum Dynamics GDR, 12<sup>th</sup> meeting**, *GDR CNRS 3274 DYNQUA*, Stras-  
 2020 bourg, France.
- October 21–25 **The analysis of complex quantum systems: large Coulomb systems and**  
 2019 **related matters**, *CIRM*, Marseille, France.
- September **Density functionals for many-particle systems: mathematical theory and**  
 16–27 2019 **physical applications of effective equations**, *University of Singapore*, Singapore.
- June 19–21 **3<sup>rd</sup> edition of the Mini-school on Mathematics for theoretical chemistry**  
 2019 **and physics**, *Sorbonne Université*, Paris, France.
- April 22–26 **Research School: From Quantum to Classical**, *CIRM*, Marseille, France.  
 2019
- February **Quantum Dynamics GDR, 11<sup>th</sup> meeting**, *Institut de Mathématiques de Bor-*  
 13–15 2019 *deaux*, Bordeaux, France.
- January 28– **Optimal transport methods in Density functional theory**, *Banff Research*  
 February 1<sup>st</sup> *Station*, Banff, Canada.

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## Miscellaneous

- Languages French and English
- Softwares L<sup>A</sup>T<sub>E</sub>X, Python, Wolfram Mathematica, Matlab, Maple, OCaml, Inkscape