

Alexandre LOURDEAUX

PhD in Mathematics

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Current situation

09/2024–08/2026 **Postdoctoral fellow**, *Southern University of Science and Technology*, Shenzhen, China.

Degrees and studies

09/2023–08/2024 **ATER (Postdoctoral Fellow)**, *Université de Grenoble-Alpes*, Grenoble, France.

01/2021–06/2021 **Temporary Teaching and Research Position (ATER)**, *University of Franche Comté*, Besançon, France.

2020 **PhD in mathematics, advisor : Philippe Gille** , *University Claude Bernard Lyon 1, Camille Jordan Institute*, Lyon, France.
Title : On Cohomological invariants of linear algebraic groups.

Janv. 2017 **Diploma of École Normale Supérieure de Paris**.

2015 **Master degree in fundamental mathematics**, *University Paris 6*, Paris, France.

2011–2012 **Bachelor degree in mathematics**, *University Paris 7*, Paris, France.

2011–2016 **Student at École Normale Supérieure de Paris**, Paris, France.

Experiences

10/2021–10/2023 **Postdoctoral Fellow**, *University of Alberta*, Edmonton, Canada.
Advisors : Arturo Pianzola & Vladimir Chernousov.

Fév.-Mars 2020 **Invited searcher-student**, *University of Ottawa*, Ottawa, Canada.
Supervisor : Kirill Zaynullin.

May 2015–Sept. 2015 **Master thesis**, *Paris 13 University*, *Brauer groups and homogeneous varieties*.
Supervisor : Anne Quéguiner-Mathieu.

Teaching

Jan. 2017–June 2017 **Teaching assistant (Undergraduates)**, *Lyon 1 University*.

Jan. 2018–June 2018 **Oral exercise sessions (Undergraduates)**, *Lyon 1 University*.

Sept. 2018–Dec. 2018 **Oral exercise sessions (Undergraduates)**, *Lyon 1 University*.

Jan. 2019– **Teaching assistant (Undergraduates)**, *Lyon 1 University*.
June 2019

Jan. 2021– **Instructor "differential equations" (for biologists)**, *University of Franche Comté*.
June 2021

Jan. 2021– **Teaching assistant (Undergraduates)**, *University of Franche Comté*.
June 2021

July– **Instructor for 'Intermediate Calculus II'**, *University of Alberta*.
Aug. 2022

July– **Instructor for 'Linear Algebra II'**, *University of Alberta*.
Aug. 2023

Skills

Computer

Known languages Latex, Caml, C++

Languages

French Native language

English Professionnal level

Chinese Notions
(Mandarin)

(Pre-)publications

On degree 2 cohomological invariants of liner algebraic groups, *Journal of Pure and Applied Algebra*, vol. 226 (10), Article 107059, 2022.

On geometry of pseudo-reductive groups, *Communications in Algebra*, vol. 50 (12), pp. 5371-5386, 2022.

(Prepublication) *Faisceaux $Q/Z(j)$ et conjecture de Gersten sur un corps imparfait*, arXiv :2010.09182.