

# TIMOTEI Paul-Emmanuel

*PhD student*

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## Research fields

I work in singularity theory and am more specifically interested in the work of the end of the 19th century in Europe and in resolution of singularities.

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## Formation

### University

- 2022– **PhD**, CNRS - SPHERE Laboratory - Université Paris Cité, Paris, France ; Title: Interactions between mathematics and the history of mathematics: historical approach and contemporary perspectives based on the report by Alexander Brill and Max Noether, *Die Entwicklung der Theorie der algebraischen Functionen in älterer und neuerer Zeit* (1894), Under the direction of Ms Karine CHEMLA and Mr Patrick POPESCU-PAMPU
- 2021/2022 **2nd year Master of Fundamental Mathematics**, Université Paris Cité, Paris, France, in collaboration with the Faculté des Sciences et Ingénierie de Sorbonne Université and the Université Sorbonne Paris Nord; Mention : Assez bien.
- 2020/2021 **1st year Master of Mathematics and Applications Jacques Hadamard course**, Université Paris-Saclay, Orsay, France, in collaboration with the Ecole Normale Supérieure de Paris-Saclay and the Ecole Polytechnique (IPP); Mention : Assez bien.
- 2019/2020 **3rd year of a Licence in fundamental and applied mathematics**, *Université Paris-Saclay*, Orsay, France  
Mention : Bien.

### CPGE

- 2018/2019 **CPGE MP**, Collège Stanislas, Paris, France; Mention: A
- 2017/2018 **CPGE MPSI**, Collège Stanislas, Paris, France; Mention: B

- Option : S2I
- Language : English

### Baccalauréat

- 2017 **Scientific Series**, Lycée Paul Lapie, Courbevoie, France; Mention: Bien.
- Series : S-SVT
  - Speciality : Mathematics
  - Option : Ancient Greek

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## Conferences

### 2024

- 18.03 **Dear Jeremy**, SPHERE Laboratory, Paris, France
- 02.03 **Research in Progress**, British Society for the History of Mathematics, Oxford, England

### 2023

- 06.11–07.11 **Colloquium in honour of Eberhard Knobloch**, SPHERE Laboratory, Paris, France
- 30.10–03.11 **The Brill-Noether report on the theory of algebraic functions (1894): translation and analysis**, CIRM, Marseille, France
- 15.09–16.09 **33nd Novembertagung**, Rijeka, Croatia
- 12.06–17.06 **115AM - Algebraic and topological interplay of algebraic varieties, A Conference in Honor of the 60th Birthday of Enrique Artal and the 55th Birthday of Alejandro Melle**, Jaca, Spain
- 27.03–31.03 **Expressions of Mathematical Activity : Traces and Histories**, GDR 3398 Histoire des Mathématiques, CIRM, Marseille, France
- 04.01–06.01 **ANR SINTROP**, Lille, France

### 2022

- 12.12–16.12 **Brill & Noether**, Lille, France
- 07.12–09.12 **Colloque international à l'occasion du bicentenaire de la naissance du mathématicien Charles Hermite (1822–1901)**, Paris, France
- 19.10–20.10 **FPMW14**, Nantes, France

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## Experience

### Communications

#### 2024

- 04.03 **Answering Jeremy Gray's "Algebra and/or geometry" conference**, Histoire et philosophie des mathématiques Seminar, SPHERE Laboratory, Paris, France
- 02.03 **The reduction of singularities according to Max Noether and Georges-Henri Halphen: What did *more geometric* mean?**, British Society for the History of Mathematics, Research in Progress Conference, Oxford, England

#### 2023

- 18.12 **Round-table : Algebraic approaches of curves**, Histoire et philosophie des mathématiques Seminar, SPHERE Laboratory, Paris, France
- 30.10–03.11 **Presentation of part of the translation of Section VI of the text by Alexander Brill and Max Noether: *Die Entwicklung der Theorie der algebraischen Functionen in älterer und neuerer Zeit (1894)***, The Brill-Noether report on the theory of algebraic functions (1894): translation and analysis, CIRM, Marseille, France
- 16.09 **Halphen *more geometric* than Noether**, 33nd Novembertagung, Rijeka, Croatia
- 16.05 **The reduction of singularities of a plane algebraic curve by correspondence with Georges-Henri Halphen**, Mathématiques 19è–21è, histoire et philosophie Seminar, SPHERE Laboratory, Paris, France

- 26.04 **Notices on life and work: the case of G.-H. Halphen**, DISc Seminar, SPHERE Laboratory, Paris, France
- 04.04 **Singularity theory and history through the eyes of mathematicians**, Journée doctorale ED 623, Université Paris Cité, Paris, France
- 2022
- 12.10 **A text by Brill & Noether, mathematics and a method**, DISc Seminar, SPHERE Laboratory, Paris, France
- [Organisation](#)
- 2023/2024 **Mathématiques 19è–21è, histoire et philosophie Seminar**, SPHERE Laboratory, Paris, France
- 2023/2024 **DISc Seminar**, SPHERE Laboratory, Paris, France
- 24.02.2025–08.03.2025 **Working group/mini-workshop on the Brill-Noether translation project**, Newton Institut - Cambridge, England
- 2024 **The Brill-Noether report on algebraic functions (1894): translation and analysis**, Oberwolfach, Germany
- 06.06.2024–07.06.2024 **SPHERE PhD Students' days**, SPHERE Laboratory, Paris, France
- 21.03.2024 **Biographie / prosopographie et pratique de l'histoire par les scientifiques**, DISc Seminar, SPHERE Laboratory, Paris, France
- 18.12.2023 **Algebraic approaches of curves**, Histoire et philosophie des mathématiques Seminar, SPHERE Laboratory, Paris, France
- 17.11.2023 **Calculation/Computation and Proof**, Mathématiques 19è–21è, histoire et philosophie Seminar, SPHERE Laboratory, Paris, France
- 30.10.2023–03.11.2023 **The Brill-Noether report on the theory of algebraic functions (1894): translation and analysis**, CIRM, Marseille, France
- 16.05.2023 **The reduction of singularities**, Mathématiques 19è–21è, histoire et philosophie Seminar, SPHERE Laboratory, Paris, France
- 26.04.2023 **Notices, Obituaries and Biographies by scientists**, DISc Seminar, SPHERE Laboratory, Paris, France
- [Project - Research Internship](#)
- 2022 **A long exact Künneth sequence in cylindrical contact homology**, Université Paris-Saclay, Orsay, France; Memoir under the direction of Mr. Frédéric BOURGEOIS
- 2021 **The turning of the sphere**, University Paris-Saclay, Orsay, France; Memoir under the direction of Mr. Patrick MASSOT
- 2021 **Basis of Scale Relativity**, Observatoire de Paris-Meudon, Paris, France; Under the direction of Mr. Thierry LEHNER
- 2020 **Basics of Differential Geometry**, Université Paris-Saclay, Orsay, France; Under the direction of Mr. Joël MERKER
- 2020 **Basis of General Relativity**, Observatoire de Paris-Meudon, Paris, France; Under the direction of Mr. Thierry LEHNER
- 2019 **Isometric transport**, Collège Stanislas, Paris, France; TIPE under the direction of Mr. Raphaël SHABETAI

2018 **Collision and three-body problem**, Collège Stanislas, Paris, France; TIPE under the direction of Mr. CANDELON

### Teaching

2023/2024 **TDs in L1 - Mathématiques Approfondies**, Sorbonne Université, Paris, France

2023/2024 **TDs in L2 - Algèbre linéaire**, Sorbonne Université, Paris, France

2020/2021 **Colles of Mathematics in CPGE**, CPGE MPSI, Collège Stanislas, Paris, France

2020 **Private lessons**, CPGE MPSI, Paris, France

2019/2020 **Private lessons**, Terminale Scientifique, Orsay, France

### Book

2019 **Tutos de Maths - Bac Terminale S**, Mr. Arnaud BERNIGOLE, editions Ellipses; Participation in the writing of the book

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## Scholarship

2024 **ICHM Grants for International Research-Related Activity**, British Society for the History of Mathematics, Research in Progress Conference, England

2023 **DAAD – Research Grants - Short-Term Grants**, Archives research in Göttingen, Germany

2023 **GDR 3398 Histoire des Mathématiques – Mission funding**, France

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## Competition

### CPGE

- X-ENS, Mines-Ponts, Centrale-Supélec, CCINP, Mines-Télécom

### Concours Général

2018 **Concours Général de Théologie**, Collège des Bernardins, Paris, France

2017 **Concours Général de Mathématiques**, Académie Versailles, Selected for the Pépinière de Mathématiques, Académie de Versailles

2017 **Concours Général de Philosophie**, Académie de Versailles

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## Competencies

- Software : Python, SageMath, GéoGébra,  $\LaTeX$ , Pack Office.
- Languages : Français, English, Español, Deutsch, Latin, Ancient Greek