

Edouard Feingesicht

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Born on 11/12/1998

Education

- 2021-2024 **PhD in Mathematics**, Université de Caen Normandie, (LMNO)
Advisor : *Eddy Godelle*
Title : *Structure groups of solutions to the Yang-Baxter equation*
- 2021 **Agrégation de Mathématiques**, Option C (Algebra and formal calculus), (french teaching exam)
- 2018-2020 **Master degree Mathematics and Applications**, Pure Mathematics, Sorbonne Université, Paris
with highest honour
- 2015-2018 **Double-degree Mathematics-Physics**, Sorbonne Université, Paris
with high honour
- 2015 **Baccalauréat - General Scientific**, Option : Computer Science, Lycée Notre-Dame de Boulogne, Boulogne-Billancourt

Experiences

- 2023-2024 **Co-organizer**, Young researchers Working Group on Elliptic Curves
With : *Francesco Iudica, Alexis Lucas*
- 2022-2024 **Co-organizer**, Young researchers seminar of the LMNO
With : *Francesco Iudica*
- 2020 **Research Internship**, Master's Thesis
Advisors : *Vladimir Dotsenko, Eric Hoffbeck*
Title : *Gröbner basis for algebraic operads*
- 2019 **Research Project**, Sorbonne Université
Advisor : *Benoît Stroh*
Title : *Sheaf theory and Cousin problems*
- Summer 2017 **Laboratory internship**, Observatoire de Paris (SYRTE), (10 weeks)
Advisor : *Stéphane Guérandel*
Title : *Computing the evolution of the density matrix for Cesium*

Skill

- Languages **French** (*native*), **English** (*Fluent*), **German** (*Basics*)
- Programming **LaTeX**, **Python**, **Lua**, **GAP**, **Java**, **C++**

Publications

- 2023 **Dehornoy's class and Sylows for set-theoretical solutions of the Yang-Baxter equation**, (Accepted for publication at the International Journal of Algebra and Computation) (preprint arXiv:2302.02652)

Teachings

2021-2024 **Teaching Assistant : Networks and Telecommunications** (1st year) :

- **Programming fundamentals** (30h)
- **Mathematics of transmissions** (40h)
- **Mathematics of numerical systems** (98h)
- **Mathematical analysis of signals** (24h)

Talks

- 2021-2024 **Groups and Braids**, Participation in a Working Group (Caen, France)
- Jan. 2024 **Hecke algebras for the Yang–Baxter Equation**, Working Group (Caen, France)
- July 2023 **Germes and Sylows for structure group of solutions to the Yang–Baxter equation**, Young Researchers Algebra Conference 2023 (L’Aquila, Italy)
- Juin 2023 **Germes and Sylows for structure group of solutions to the Yang–Baxter equation**, Groups, Rings and the Yang–Baxter equation 2023 (Blankenberge, Belgium)
- Feb. 2023 **Germes and Sylows for structure group of solutions to the Yang–Baxter equation**, VUB Algebra Research Group Seminar (Brussels, Belgium)
- Jan 2023 **Germes et Sylows pour les groupes de structure des solutions de l’équation de Yang–Baxter**, LMNO Algebra and Geometry seminar (Caen, France)
- June 2022 **14th days of the Normandie-Mathématiques Federation**, (Diffusion of Mathematics)
- Mar. 2022 **An introduction to Coxeter-like groups**, Algebra Days in Caen 2022: from Yang–Baxter to Garside (Caen, France)
- Dec. 2021 **Groupes de structure des équations de Yang–Baxter**, Young researchers seminar of the LMNO (Caen, France)

Formation

- Feb. 2024 **Winter Braids XIII** (Montpellier, France), School on braids and low dimensional topology
- 2023 **Teaching Formation**, ED MIIS (Caen, France)
- Feb. 2023 **Winter Braids XII** (Tours, France), School on braids and low dimensional topology
- Sep. 2022 **Braid meeting 2022 : Generalized braid groups** (Amiens, France)
- June 2022 **The algebra of the Yang–Baxter equation** (Będlewo, Poland)
- Dec. 2021 **Winter Braids XI** (Dijon, France), School on braids and low dimensional topology
- Apr. 2021 **Scientific Integrity Formation**, ED MIIS (Caen)