Edouard Feingesicht

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Born on 11/12/1998

Background

2024-2025	**Teaching Assistant in mathematics**, *Université de Caen Normandie*, (LMNO)
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

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*

Organization

Oct. 2024	**Co-organizer**, *From Garside to Yang-Baxter (Caen)*, With: *with: E. Godelle, V. Lebed*
2023-2024	**Co-organizer**, *Young researchers Working Group on Elliptic Curves (Caen)*, with: *Francesco Iudica, Alexis Lucas*
2022-2024	**Co-organizer**, *Young researchers seminar of the LMNO (Caen)*, With: *Francesco Iudica*

Publications

2024	**Dehornoy's class and Sylows for set-theoretical solutions of the Yang-Baxter equation**, International Journal of Algebra and Computation, Vol. 34, pp. 147-173

Pre-publications

2024	**Hecke algebras for set-theoretical solutions to the Yang–Baxter equation**, arXiv:2411.00695.
2024	**Indecomposability and irreducibility of monomial representations for set-theoretical solutions to the Yang-Baxter equation**, with C. Dietzel & S. Properzi, arXiv:2409.10648.

Skills

Languages	**French** (*native*), **English** (*Fluent*), **German** (*Basics*)

| Programming | **GAP**, **SageMath**, **LaTeX**, **Python**, **Lua**, **Java**, **C++** |

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	**Germs and Sylows for structure group of solutions to the Yang-Baxter equation**, Young Researchers Algebra Conference 2023 (L'Aquila, Italy)
Juin 2023	**Germs and Sylows for structure group of solutions to the Yang-Baxter equation**, Groups, Rings and the Yang–Baxter equation 2023 (Blankenberge, Belgium)
Feb. 2023	**Germs 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)

Teachings

2024-2025 **Undergraduate mathematics (Caen)** :

- **Linear Algebra (3$^{\mathrm{rd}}$ year)** (35h)
- **Algorithmics (3$^{\mathrm{rd}}$ year)** (20h)
- **Analysis and numerical applications (2$^{\mathrm{nd}}$ year)** (50h)
- **Geogebra for analysis (2$^{\mathrm{nd}}$ year)** (25h)

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)