

# Leandro Vendramin

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## Education

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**2010:** Ph.D. in Mathematics. Universidad de Buenos Aires, Argentina. Advisor: M. Graña.

**2004:** *Licenciado en Cs. Matemáticas*. Universidad de Buenos Aires, Argentina.

## Positions

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**2021:** Associate professor. Vrije Universiteit Brussel, Belgium.

**2019–2021:** Visiting Assistant Professor of Mathematics. New York University, Shanghai, China.

**2014–2021:** Assistant Professor. Universidad de Buenos Aires, Argentina.

**2012–2021:** Researcher. Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina.

**2012–2018:** Regular Associate. Abdus Salam International Centre for Theoretical Physics. Trieste, Italy.

## Prizes and fellowships

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**2025:** Ferran Sunyer i Balaguer Prize (with F. Cedó).

**2018:** Alexander von Humboldt fellowship (3 months). Host: I. Heckenberger.

**2017:** Postdoctoral fellowship (4 months), ERC Advanced Grant 320974. Host: A. Smoktunowicz.

**2016:** Argentinian Academy of Sciences – Young researcher award.

**2012:** Alexander von Humboldt fellowship (12 months). Host: I. Heckenberger.

**2011:** DAAD short-term postdoctoral fellowship (4 months).

**2010:** Conicet postdoctoral fellowship (24 months).

**2009:** DAAD short-term fellowship (3 months).

**2005:** Conicet Ph.D. fellowship (60 months).

## Selected publications

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- [1] I. Heckenberger, E. Meir, and L. Vendramin. Finite-dimensional Nichols algebras of simple Yetter–Drinfeld modules (over groups) of prime dimension. *Adv. Math.* 444 (2024), Paper No. 109637. DOI: [10.1016/j.aim.2024.109637](https://doi.org/10.1016/j.aim.2024.109637).
- [2] E. Jespers, Ł. Kubat, A. Van Antwerpen, and L. Vendramin. Radical and weight of skew braces and their applications to structure groups of solutions of the Yang–Baxter equation. *Adv. Math.* 385 (2021), Paper No. 107767, 20. DOI: [10.1016/j.aim.2021.107767](https://doi.org/10.1016/j.aim.2021.107767).
- [3] F. Cedó, A. Smoktunowicz, and L. Vendramin. Skew left braces of nilpotent type. *Proc. Lond. Math. Soc.* (3) 118.6 (2019), pp. 1367–1392. DOI: [10.1112/plms.12209](https://doi.org/10.1112/plms.12209).
- [4] A. Smoktunowicz and L. Vendramin. On skew braces (with an appendix by N. Byott and L. Vendramin). *J. Comb. Algebra* 2.1 (2018), pp. 47–86. DOI: [10.4171/JCA/2-1-3](https://doi.org/10.4171/JCA/2-1-3).
- [5] L. Guarnieri and L. Vendramin. Skew braces and the Yang–Baxter equation. *Math. Comp.* 86.307 (2017), pp. 2519–2534. DOI: [10.1090/mcom/3161](https://doi.org/10.1090/mcom/3161).
- [6] I. Heckenberger and L. Vendramin. A classification of Nichols algebras of semisimple Yetter–Drinfeld modules over non-abelian groups. *J. Eur. Math. Soc. (JEMS)* 19.2 (2017), pp. 299–356. DOI: [10.4171/JEMS/667](https://doi.org/10.4171/JEMS/667).
- [7] I. Heckenberger and L. Vendramin. The classification of Nichols algebras over groups with finite root system of rank two. *J. Eur. Math. Soc. (JEMS)* 19.7 (2017), pp. 1977–2017. DOI: [10.4171/JEMS/711](https://doi.org/10.4171/JEMS/711).
- [8] V. Lebed and L. Vendramin. Homology of left non-degenerate set-theoretic solutions to the Yang–Baxter equation. *Adv. Math.* 304 (2017), pp. 1219–1261. DOI: [10.1016/j.aim.2016.09.024](https://doi.org/10.1016/j.aim.2016.09.024).

The full list of publications is available on my [webpage](#).

## Talks

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The full list of talks, including slides and videos, is available on my [webpage](#).

## Editorial activity

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**2024:** Open Mathematics

**2023:** Bulletin of the Belgian Mathematical Society – Simon Stevin.

## Grants (selection)

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**2023:** G004124N. Fonds Wetenschappelijk Onderzoek (FWO) – Vlaanderen. Belgium (310000 EUR).

**2021:** OZR3762. Vrije Universiteit Brussel, Belgium (100000 EUR).

## Conferences organized (selection)

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**10/2025:** Overwolfach mini-workshop (2544b): The Yang–Baxter Equation and Representations of Braid Groups. Organizers: I. Colazzo, J. Plavnik, E. Rowell, L. Vendramin.

**06/2025:** The Yang–Baxter equation and all that. Będlewo, Poland. Organizers: I. Colazzo, T. Brzezinski, L. Vendramin.

**04/2025:** Hopf algebras, quantum groups, monoidal categories and related structures, Brussels, Belgium. Organizers: S. Caenepeel, K. De Commer, P. Saracco, P. Vaz, L. Vendramin, J. Vercruysse.

**05/2024:** Banff Workshop (24w5201): Skew Braces, Braids and the Yang–Baxter Equation. Organizers: I. Colazzo, J. Plavnik, E. Rowell, L. Vendramin. Alberta, Canada.

**01/2024:** Oberwolfach mini-workshop (2405b): Bridging number theory and Nichols Algebras via deformations. Organizers: G. Carnovale, I. Heckenberger, L. Vendramin. Germany.

**06/2023:** Groups, rings and the Yang–Baxter equation. Organizers: I. Colazzo, A. Van Antwerpen, L. Vendramin. Blankenberge, Belgium.

**02/2023:** Oberwolfach mini-workshop (2309a): Skew braces and the Yang–Baxter equation. Organizers: T. Brzezinski, I. Colazzo, A. Doikou, L. Vendramin. Germany.

**07/2022:** The algebra of the Yang–Baxter equation. Organizers: I. Colazzo, J. Okninski, L. Vendramin. Stefan Banach International Mathematical Center, Będlewo, Poland.

**09/2019:** Oberwolfach mini-workshop (1946a): Algebraic tools for solving the Yang–Baxter equation. Organizers: E. Jespers, V. Lebed, W. Rump, L. Vendramin. Germany.

See [my research team's webpage](#) for other conferences I organized.

## Mentoring

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### Current Ph.D. students

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**2025:** Lukas Simons. Cosupervised with J. Vercruysse.

**2024:** Yufei Qin. Cosupervised with G. Zhou

**2024:** Charlotte Roelants. Cosupervised with K. Piterman.

**2023:** Davide Ferri. Cosupervised with A. Ardizzoni.

**2022:** Silvia Properzi.

**2021:** Thomas Letourmy. Cosupervised with J. Vercruysse.

**2021:** Senne Trappeniers. Cosupervised with A. Van Antwerpen.

**2019:** Santiago Ramírez. Universidad de Buenos Aires.

### Former Ph.D. students

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**2025:** Emiliano Acri.

**2022:** Charlotte Verwimp. Cosupervised with E. Jespers.

### Current postdocs

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Andrew Darlington, Kevin Piterman (FWO), Magdalena Wiertel (NAWA Bekker).

### Former postdocs

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Marco Bonatto (Conicet), Carsten Dietzel (Humboldt).