

Leandro Vendramin

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Education

2010: Ph.D. in Mathematics. Universidad de Buenos Aires, Argentina. Thesis: Nichols algebras over non-abelian groups. Advisor: M. Graña.

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

Positions

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.

Selected publications

- [1] 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).
- [2] 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).
- [3] 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).
- [4] 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).
- [5] 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).
- [6] 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).
- [7] 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).
- [8] M. Graña, I. Heckenberger, and L. Vendramin. Nichols algebras of group type with many quadratic relations. *Adv. Math.* 227.5 (2011), pp. 1956–1989. DOI: [10.1016/j.aim.2011.04.006](https://doi.org/10.1016/j.aim.2011.04.006).

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

Talks

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

Editorial activity

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

Prizes and fellowships

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).

Grants

2021: OZR3762. Vrije Universiteit Brussel, Belgium (100000 EUR).
2017: MathAmSud. Chile–France–Argentina (12000 EUR).
2016: PICT 2016-2481. Agencia Nacional de Promoción Científica y Tecnológica, Argentina.
2014: PICT 2014-1376. Agencia Nacional de Promoción Científica y Tecnológica, Argentina.
2013: UBACyT 20020110300037. Universidad de Buenos Aires, Argentina.

Mentoring

Current Ph.D. students.....

2022: Silvia Properzi.
2021: Thomas Letourmy. Supported by FRNS. Co-supervised with J. Vercruysse.
2021: Senne Trappeniers. Supported by FWO. Co-supervised with A. Van Antwerpen.
2019: Santiago Ramírez. Universidad de Buenos Aires. Supported by Conicet.
2018: Emiliano Acri. Universidad de Buenos Aires. Supported by Conicet.

Former Ph.D. students.....

2018–2022: Charlotte Verwimp. Supported by FWO. Co-supervised with E. Jespers.

Postdocs.....

2023–2024: Carsten Dietzel. Supported by the Alexander Von Humboldt Foundation.
2021–2025: Kevin Piterman. Supported by FWO.
2020–2027: Arne Van Antwerpen. Supported by FWO.
2019–2020: Marco Bonatto. Universidad de Buenos Aires. Supported by Conicet.

Conferences organized

2024: Banff Workshop (24w5201): Skew Braces, Braids and the Yang–Baxter Equation. Organizers: I. Colazzo, J. Plavnik, E. Rowell, L. Vendramin. Alberta, Canada. May 5–10.

2024: Oberwolfach mini-workshop (2405b): Bridging number theory and Nichols Algebras via deformations. Organizers: G. Carnnole, I. Heckenberger, L. Vendramin. Germany. February 26 to March 4.

2023: Groups, rings and the Yang–Baxter equation. Organizers: I. Colazzo, A. Van Antwerpen, L. Vendramin. Blankenberge, Belgium. June 19– 23.

2023: Oberwolfach mini-workshop (2309a): Skew braces and the Yang–Baxter equation. Organizers: T. Brzezinski, I. Colazzo, A. Doikou, L. Vendramin. Germany. February 26 to March 4.

2022: The algebra of the Yang–Baxter equation. Organizers: I. Colazzo, J. Okninski, L. Vendramin. Stefan Banach International Mathematical Center, Będlewo, Poland. July 10–15.

2019: Oberwolfach mini-workshop (1946a): Algebraic tools for solving the Yang–Baxter equation. Organizers: E. Jespers, V. Lebed, W. Rump, L. Vendramin. Germany. November 10–16.

2019: Workshop on quantum symmetries. Organizers: I. Angiono, A. Solotar, L. Vendramin. ICTP-SAFIR, São Paulo, Brazil. October 16–18.

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