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.
- [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.
- [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.
- [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.
- [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.
- [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.
- [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.
- [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.

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.

Conferences organized

- **2024**: Banff Workshop (24w5201): Skew Braces, Braids and the Yang-Baxter Equation. Organizers: I. Collazo, 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. Carnnovale, 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 Pablo, Brazil. October 16–18.

See my research team's webpage for other conferences I organized.

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.