Gaston Burrull

Curriculum Vitae

The University of Sydney Carslaw Building, Office 528 Camperdown, NSW 2006 ☑ gbur0996@uni.sydney.edu.au

Personal details

Native City Santiago, Chile.

Nationality Chilean.

Education

2018 – present **Ph.D. in Mathematics**, The University of Sydney, supervised by Geordie Williamson.

2015 – 2018 **M.S. in Mathematics**, Pontificia Universidad Catolica de Chile, supervised by Nicolas Libedinsky.

2012 – 2014 B.S. in Mathematics, Pontificia Universidad Catolica de Chile.

Publications and preprints

Publications

1 *p*-Jones-Wenzl idempotents.

Joint with Nicolas Libedinsky and Paolo Sentinelli, *Advances in Mathematics* 352 (2019), 246–264.

https://arxiv.org/abs/1902.00305.

Preprints

1 Combinatorial invariance conjecture for \tilde{A}_2 .

Joint with Nicolas Libedinsky and David Plaza.

https://arxiv.org/abs/2105.04609.

Selected talks

Dec. 2018 **The periodic module of the Hecke algebra**, Geometric and categorical representation theory. MATRIX. Creswick, Australia.

Mar. 2017 *p*-canonical basis for universal Coxeter groups, Colloquium on Algebras and Representations. Quantum 17. Talca, Chile.

Workshops and Schools

Dec. 2020 The 64th annual ONLINE meeting of the Australian Mathematical Society, University of New England, Armidale NSW.

Feb. 2020 **New Connections in Representation Theory**, Mantra Hotel Conference Centre. Mooloolaba, Queensland, Australia.

Dec. 2019 **Workshop on Birational Geometry and Moduli Spaces**, The University of Sydney. Sydney, Australia.

- Aug. 2019 Graduate Summer School on the Geometry and Modular Representation Theory of Algebraic Groups, Simons Center for Geometry and Physics. New York, USA.
- Aug. 2019 **Flags, Galleries and Reflection Groups**, The University of Sydney, Australia.
- Dec. 2018 Geometric and categorical representation theory, MATRIX. Creswick, Australia.
- Mar. 2017 Colloquium on Algebras and Representations, Quantum 17. Talca, Chile.
- Feb./Mar. **Colloquium on Algebras and Representations**, Quantum 16. Cordoba, Argentina. 2016
- Jan. 2014 **Escuela de verano Cohomologia Galoisiana**, IMAFI, Universidad de Talca. Talca, Chile.

Tutoring experience

- 2019 **Casual Tutor at University of Sydney**, MATH1002 and MATH1014 linear algebra, MATH2088 Number theory and cryptography (Teaching magma).
- 2010 2015 **Tutor assistant at Pontifical Catholic University of Chile**, Eleven math courses including: linear algebra, abstract algebra, field and Galois theory, real analysis, measure theory and differential geometry.

Scholarships and awards

- 2017 CONICYT BECA CHILE, Financing for Ph.D. program.
- 2015 CONICYT National Master Scholarship, Financing for M.S. program.
- 2013 Rolando Chuaqui Scholarship, Financing for B.S. program.
- 2010/11 Honor scholarship 2009/10, Financing for B.S. program.

Computer skills

Software SageMath, Python, Magma, Inkscape.

Languages

Spanish Native

English Advanced (C1)