

José Eduardo Aliste Prieto

Birth date: June 13th, 1980 in Santiago, Chile.

Nationality: chilean

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Languages: Spanish, english, french, german, italian.

Current position

- Assistant professor at the department of mathematics in *Universidad Andres Bello, Chile* (since July 2012).

Research interests

- Algebraic combinatorics. polynomial invariant of graphs, symmetric functions, Stanley conjecture on chromatic symmetric functions.
- Dynamical systems. Ergodic theory and topological dynamics of dynamical systems arising from non-periodic tilings. Rotation number theory for non-periodic flows.

Education

- Ph.D. in mathematics, University of Nice Sophia Antipolis and Ph.D. in engineering , University of Chile (cotutelle), July 2009.
- Mathematical engineer, University of Chile, July 2005.

Publications in journals

1. (with A. de Mier and J. Zamora) On trees with the same restricted U -polynomial and the Prouhet-Tarry-Escott problem. *arXiv:1509.09210*. Accepted for publication in *Discrete Mathematics*.
2. (with S. Petite) On the simplicity of homeomorphism groups of a tilable lamination. *Monatshefte für Mathematik*, 2016 (doi:10.1007/s00605-016-0921-1).
3. (with J. Zamora) Proper caterpillars are distinguished by their symmetric chromatic function. *Discrete Mathematics*, 315–316: 158–164, 2014.
4. (with D. Coronel and J.-M. Gambaudo) Linearly repetitive delone sets are rectifiable. *Annales de l'Institut Henri Poincaré (C) Non Linear Analysis*, 30:275–290, 2013.
5. (with T. Jäger) Almost periodic structures and the semiconjugacy problem. *Journal of Differential Equations*, 252(9):4988–5001, 2012.
6. (with D. Coronel and J.M. Gambaudo) Rapid convergence to frequency for substitution tilings of the plane. *Communications in Mathematical Physics*, 306(2):365–380, 2011.

7. (with D. Coronel) Tower systems for linearly repetitive delone sets. *Ergodic Theory and Dynamical Systems*, 31(6):1595–1618, 2011.
8. Translation numbers for a class of maps on the dynamical systems arising from quasicrystals in the real line. *Ergodic Theory Dynam. Systems*, 30(2):565–594, 2010.

Other positions

- **Professeur invité** LIPN, Université de Paris Nord. May 2016.
- **Chargé de Recherche Invité (Poste Rouge)**. CNRS - LAMFA, Université de Picardie, Amiens. October–December 2012.
- **Chercheur invité** (host: Prof. Tobias Jäger) T.U. Dresden, Dresden, Germany. February–April 2011.
- **Postdoctoral Fellow** Center for Mathematical Modeling. University of Chile. October 2009–September 2012.
- **Junior Research Fellow**. Erwin Schrödinger Institute for mathematical physics, Vienna, Austria. September 2009–December 2012.

Grants

- Fondecyt Regular 1160975, CONICYT, Chile. 2016-2020.
- Fondecyt Iniciacion 12151000, CONICYT, Chile. 2013-2015.
- Fondecyt postdoctoral grant 3100097, CONICYT Chili. 2009-2012.

Languages

- Spanish (mother tongue), english (fluent), french (fluent), italian (intermediate) and german (basic).