

Personal Information

Nationality Chilean.
Born November 7, 1986.
Address Lisboa 75 Chorrillos, Viña del Mar, Chile.

Education

- (4) *Degree* [Ph.D. in Mathematics.](#)
Period August 2013 – August 2017.
Advisor / Co-Advisor Eduardo Cerpa / Lionel Rosier.
Institution Universidad Técnica Federico Santa María, Valparaíso, Chile.
- (3) *Degree* [Master de Sciences et Technologies, mention Mathématiques et Applications.](#)
Period September 2012 – June 2013.
Advisor Sergio Guerrero.
Institution Université Pierre et Marie Curie, Paris, France.
- (2) *Degree* [M.Sci. in Mathematics.](#)
Period August 2010 – August 2012.
Advisor / Co-Advisor Eduardo Cerpa / Alberto Mercado.
Institution Universidad Técnica Federico Santa María, Valparaíso, Chile.
- (1) *Diploma* [Mathematics Engineering.](#)
Period March 2005 – December 2011.
Advisor / Co-Advisor Alberto Mercado / Eduardo Cerpa.
Institution Universidad Técnica Federico Santa María, Valparaíso, Chile.

Teaching Experience

- Since March 2012, I am part-time lecturer at the [Departamento de Matemática](#) of the Universidad Técnica Federico Santa María, Valparaíso, Chile. I have taught the following courses.

Matemática I (S1–2012, S1–2014, S2–2014, S1–2015 and S1–2017).

Matemática II (S2–2013).

Matemática III (S2–2016 and S2–2017).

Matemática IV (S1–2015).

- From March 2006 to December 2010, and then from August 2016 to December 2016, I was teaching assistant at the [Departamento de Matemática](#) of the Universidad Técnica Federico Santa María, Valparaíso, Chile. I was in charge of the problem solving for the following courses.

Matemática I (S1–2006, S1–2008 and S1–2009).

Matemática II (S2–2006).

Matemática III (S1–2007 and S2–2007).

Matemática IV (S2–2008).

Análisis II (S2–2009).

Ecuaciones Diferenciales Parciales (S1–2010).

Variable Compleja (S2–2016).

Publications

- (6) Energy decay of a microbeam model with a locally distributed nonlinear feedback control.
Submitted.
- (5) Local exact controllability to the trajectories of the Cahn–Hilliard equation.
Submitted.
- (4) [On the control of the linear Kuramoto–Sivashinsky equation](#) (with Eduardo Cerpa and Alberto Mercado).
ESAIM: Control, Optimisation and Calculus of Variations, Volume 23, Issue 1, 2017, Pages 165–194.
- (3) [On the cost of null controllability of a fourth–order parabolic equation](#) (with Nicolás Carreño).
Journal of Differential Equations, Volume 261, Issue 11, 2016, Pages 6485–6520.
- (2) [Exact boundary controllability of a microbeam model](#) (with Jiamin Zhu).
Journal of Mathematical Analysis and Applications, Volume 425, Issue 2, 2015, Pages 655–665.
- (1) [Lipschitz stability in an inverse problem for the main coefficient of a Kuramoto–Sivashinsky type equation](#).
Journal of Mathematical Analysis and Applications, Volume 408, Issue 1, 2013, Pages 275–290.

Research Stays

- (1) *Period* November 2015 – August 2016.
Reference Lionel Rosier.
Institution MINES ParisTech, Paris, France.

Talks

[Carleman estimates for one–dimensional fourth–order parabolic equations and applications.](#)

- (5) XXVI Congreso de Matemática Capricornio. Arica, Chile. (August 4, 2017)
- (4) I Encuentro Conjunto SOMACHI–UMA. Valparaíso, Chile. (December 17, 2016)
- (3) Problèmes Inverses, Contrôle et Optimisation de Formes. Autrans, France. (June 2, 2016)

[On the control of the linear Kuramoto–Sivashinsky equation.](#)

- (2) Workshop on Control Systems and Identification Problems. Valparaíso, Chile. (January 13, 2015)
- (1) LXXXIII Encuentro Anual SOMACHI. Quinamávida, Chile. (December 5, 2014)

Scientific Community Service

- Since January 2014, I have been referee for the following journals: [IEEE Transactions on Automatic Control](#), [Applied Mathematics and Computation](#) and [SIAM Journal on Control and Optimization](#).

Others

- Since March 1998, I study the karate–do of the [Japan Karate Association](#) under the guidance of [Sensei Raúl Puchi](#), who holds the rank of 5° Dan. Since October 2016, I hold the rank of 3° Dan.