

Personal Information

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

Academic Positions

Position Postdoctoral Researcher.
Period Since March 2018.
Supervisor Axel Osses.
Institution Departamento de Ingeniería Matemática y Centro de Modelamiento Matemático, Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile, Santiago, Chile.

Education

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.

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.

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.

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

- From March 2012 to December 2017, I was 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 of 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, 2017)
- [5] [Local exact controllability to the trajectories of the Cahn–Hilliard equation](#). Applied Mathematics and Optimization. (Accepted, 2018)
- [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 Grants

- [1] *Title* Fondecyt Postdoctorado N°3180363. [Control of high–order partial differential equations](#).
Period March 2018 – March 2021.

Research Visits

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

Conferences

- [Null controllability of a damped wave equation with a moving control](#).
- [6] Encuentro SCM–SMM. Barranquilla, Colombia. (May 30, 2018)
- [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 April 2018, I have been referee for the [IEEE Conference on Decision and Control](#).
- 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](#), popularly known as Shotokan, under the guidance of [Sensei Raúl Puchi](#), who currently holds the rank of 5° Dan. I obtained the rank of 1° Dan in July 2004, and since October 2016, I hold the rank of 3° Dan.