

ADRIANA PIAZZA

WORK ADDRESS

Departamento de Economía
Universidad de Chile
Diagonal Paraguay 257, Oficina 1305C
Santiago, Chile
apiazza@fen.uchile.cl

EDUCATION

- **Ph.D. Applied Mathematics, 2007**
Engineering School
University of Chile
Santiago, Chile
- **Ph.D. in Science, 2007**
Mathematics Department
University of Montpellier II
Montpellier, France
- **Electrical Engineer, 2001**
Universidad de la República
Montevideo, Uruguay

RESEARCH/PROFESSIONAL INTERESTS

- Economic theory
- Sustainable management of natural resources
- Optimization

GRANTS

- **Fondecyt:** 2018-2021, Principal Investigator, “Preservation of natural resources and political turnover: a game theory approach.”
- **Fondecyt:** 2014-2017, Principal Investigator, “Deterministic and stochastic models in discrete time. Some applications to exploitation of natural resources and general equilibrium theory.”
- **ANILLO:** 2012-2015, Associate Researcher, “Analysis of control problems and applications.”

- **Fondecyt:** 2009-2013, Principal Investigator, "Discrete time dynamical systems in the theory of Optimal Economic Growth, Environmental Economics and Management of Renewable Resources."
- **ANILLO:** 2010-2013, Associate Researcher, "Mathematical modeling for industrial and management science applications: a multidisciplinary approach."
- **UTFSM-DGIP:** 2013, Principal Investigator, "Discrete time dynamical systems in the theory of Optimal Economic Growth, Environmental Economics and Management of Renewable Resources."
- **UTFSM-DGIP:** 2010-2011, Principal Investigator, "Sistemas dinámicos en tiempo discreto y aplicaciones en economía y manejo sustentable."
- **Fondecyt:** 2007-2009, Principal Investigator, "Optimal management of renewable resources and its relation with optimal growth theory".
- **MECESUP, Graduate Studies Scholarship:** 2003-2007.

RESEARCH

Peer Reviewed Journals (* indicates ISI)

- Goycoolea, Marcos, Patricio Lamas, Bernardo K. Pagnoncelli and Adriana Piazza, "Lane's algorithm revisited", Management Science, accepted. (*)
- Piazza, Adriana and Santanu Roy, "Effects of Irreversibility in Forest Conservation", Economic Theory, 69(3) 667-711 (2020). (*)
- Piazza, Adriana, "A discussion of vintage optimization models in Forest Economics", Forest Science, forthcoming.
- Pagnoncelli, Bernardo K. and Adriana Piazza (2017), "The optimal harvesting problem under risk aversion", Annals of Operations Research, 258(2) 479-502.
- Piazza, Adriana and Santanu Roy (2015), "Deforestation and Optimal Management, Journal of Economic Dynamics and Control", 53, 15–27. (*)
- Piazza, Adriana and Bernardo K. Pagnoncelli (2015), "The stochastic Mitra-Wan forestry model: risk neutral and risk averse cases", Journal of Economics, 115, 175–194.

1 (*) Authors' order alphabetically determined.

- Piazza, Adriana and Bernardo K. Pagnoncelli (2014), "The optimal harvesting problem under price uncertainty", *Annals of Operations Research*, 217(1) 425–445.
- Khan, M. Ali and Adriana Piazza (2012), "On the Mitra-Wan Forestry Model: A Unified Analysis", *Journal of Economic Theory*, 147(1) 230–260. (*)
- Khan, M. Ali and Adriana Piazza (2011), "Optimal Cyclicity and Chaos in the 2-Sector RSS Model: An Anything-Goes Construction", *Journal of Economic Behavior and Organization*, 80(3) 397–417. (*)
- Khan, M. Ali and Adriana Piazza (2011), "An Overview of Turnpike Theory: Towards the Discounted Deterministic Case", *Advances on Mathematical Economics*, 14, 39–67. (*)
- Khan, M. Ali and Adriana Piazza (2011), "The Concavity Assumption on Felicities and Asymptotic Dynamics in the RSS model", *Set Valued and Variational Analysis*, 19(1), 135–156. (*)
- Khan, M. Ali and Adriana Piazza (2011), "The Economics of Forestry and a Set-Valued Turnpike of the Classical Type", *Nonlinear Analysis*, 74(1), 171–181. (*)
- Khan, M. Ali and Adriana Piazza (2011), "Classical Turnpike Theory and the Economics of Forestry", *Journal of Economic Behavior & Organization*, 79(3) 194–210. (*)
- Piazza, Adriana (2010), "A. Piazza, "About optimal harvesting policies for a multiple species forest without discounting", *Journal of Economics*, 100(3), 217–233.
- Khan, M. Ali and Adriana Piazza (2010), "On the Non-existence of Optimal Programs in the Robinson-Solow-Srinivasan (RSS) Model", *Economic Letters*, 109, 94–98. (*)
- Khan, M. Ali and Adriana Piazza (2010), "On Uniform Convergence of Undiscounted Optimal Programs in the Mitra-Wan Forestry model: The Strictly Concave Case", *International Journal of Economic Theory*, 6, 57–76.
- Cominetti, Roberto and Adriana Piazza (2009), "Asymptotic convergence of optimal harvesting policies for a multiple species forest", *Mathematics of Operations Research*, 34, Issue 3, 576–593. (*)
- Piazza, Adriana (2009), "The optimal harvesting problem with a land market: a characterization of the asymptotic convergence", *Economic Theory*, 40, Issue 1, 113-138.
- Piazza, Adriana and Alain Rapaport, "Optimal control of renewable resources with alternative use", *Mathematical and Computer Modelling*, 50, Issues 1-2, 260–272. (*)

Non-Peer Reviewed Journals and Other

- Khan, M. Ali and Adriana Piazza (2012), "Turnpike theory: a current perspective". Entry for *The New Palgrave Dictionary of Economics*. Online Edition. Eds. Steven N. Durlauf and Lawrence E. Blume. Palgrave Macmillan, 2012. doi:10.1057/9780230226203.3878

Work In Progress

- Eraslan, Hülya and Adriana Piazza, "Effects of political turnover in natural resource preservation".
- Introduction of Credit Default Swaps in a Competitive Bonds Market, con Pilar Lorenzo.
- Optimal Cut-Off Grade for Two Minerals: A Dynamic Programming Approach, con Jiangyue Gong, Lewis Ntaimo y Bernardo Pagnoncelli.

TEACHING EXPERIENCE

<u>Date</u>	<u>Positions</u>	<u>Courses</u>
2016 – 2020	Associate Professor Universidad Adolfo Ibañez Santiago, Chile	Gestión de Operaciones (Undergrad) Simulation (Graduate) Dirección de Operaciones (MBA)
2009 – 2016	Assistant Professor Mathematics Department Universidad Técnica Federico Santa María Valparaíso, Chile	Calculus 1, 2, 3 and 4 (Undergrad) Introduction to Engineering Linear Algebra 1 and 2 (Undergrad)
2014 – 2015	Visiting Assistant Professor Mathematics Department Universidad de la República Montevideo, Uruguay	Convex Analysis (Graduate)

2005 – 2009	Lecturer Department of Mathematical Engineer Universidad de Chile Santiago, Chile	Linear Algebra, Calculus 1 (Undergrad) Applied Mathematics, Non-linear Optimization, Convex Analysis (TA)
1996 – 2002	Instructor Mathematics Department Universidad de la República Montevideo, Uruguay	Numerical Analysis (Undergrad) Calculus 1 and 2 (TA)
2002	Teaching Assistant Electrical Engineer Department Universidad de la República Montevideo, Uruguay	Linear Systems

PROFESSIONAL EXPERIENCE

<u>Date</u>	<u>Positions</u>
2020 – Present	Departamento de Economía Universidad de Chile. Santiago, Chile
2016 – 2020	Associate Professor Universidad Adolfo Ibañez Santiago, Chile
2009 – 2016	Assistant Professor Mathematics Department Universidad Técnica Federico Santa María Valparaíso, Chile
2007 – 2009	Postdoctoral researcher Centro de Modelamiento Matemático Universidad de Chile Santiago, Chile
1996 – 2002	Instructor Mathematics Department Universidad de la República Montevideo, Uruguay