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**Place and Date of Birth:** México (Hgo). 27-09-1980.

**Languages:** English, Italian and Spanish (mother tongue).

**Academic Background:**

2010: **Ph.D. in Economics** at University of Siena (Italy), Department of Economics.

**Thesis: “The Strategic Foundations and Evolutionary Dynamics of Poverty Traps”**

Promoters and Supervisors: Professors Costas Azariadis and Lionello Punzo.

2007: **Master Scientifico Culturale di II Livello in Economia Politica** at University of Siena (Italy), Department of Economics.

2005: **M. Sc. in Economics** at Universidad Autonoma Metropolitana (Mexico)

**Thesis: “Uniqueness of Nash-Cournot equilibrium”.**

Promoter and Supervisor: Professor Elvio Accinelli.

2003: **Bachelor Degree in Economics** at Universidad Autonoma de Coahuila (Mexico) with a dissertation entitled “Inflation and Public Economics in Mexico”.

**Teaching and Research Fields of Interest:**

Primary: Economic Development, Evolutionary Game Theory, International Trade, Microeconomics and Poverty Traps

Secondary: Cointegration analysis and empirical analysis of economic growth

## Curriculum Vitae

### Teaching Experience:

Econometrics (undergraduate level) at Facultad de Economía, of the Autonomous University of San Luis Potosi, México. Lecturer (Fall 2011).

Linear Algebra (undergraduate level) at Facultad de Economía, of the Autonomous University of San Luis Potosi, México. Lecturer (Fall 2011).

Microeconomics III (second year-undergraduate), at Facultad de Economía, of the Autonomous University of San Luis Potosi, México (Spring 2011). Lecturer.

Economics of Tourism” (graduate) at the Maestría en Economía del Sector Público de la Universidad de Quintana Roo, México (Summer 2008). Lecturer.

Economía Política III (undergraduate), at the Facultad de Economía of the Universidad Autónoma de Coahuila, México (Fall 2003). Teaching Assistant.

### Grants and Prize:

In 2010 I received the **Salvatore Vinci Award** for the Best PhD Paper. At the Department of Economics, University of Naples PARTHENOPE.

May-June 2006, **Assignment** for a collaboration with the School of Economics and Management at the Free University of Bolzano, involved in the research project “*Dynamical Regimes in Economics: modeling and statistical tools*” The responsible of the project: Dr. Juan Gabriel Brida.

(2006-2010) **Four-year grant** for graduate student at Doctorate level by the Italian Ministry for Education and the University of Siena, Italy.

(2005-2010) **Five-year scholarship** for graduate at Master and Doctorate level student by The National Council on Science and Technology (CONACYT), Mexico.

### Publications:

IDEAS profile: <http://ideas.repec.org/f/psa676.html>

#### **a) Papers in International Refereed Journals**

1. “Imitation and Evolutionary Stability of Poverty Traps” Forthcoming in *The Journal of Bioeconomics* (2011).
2. “Strategic complementarities between innovative firms and skilled workers: the poverty trap and the policymaker's intervention” (with E. Accinelli) *Structural Change and Economic Dynamics* 22(1), pp.30-40 (2011). ISSN 0954-349X.
3. “The Evolutionary Game of Poverty Traps” Forthcoming in the journal of *The Manchester School* (2011).

### Curriculum Vitae

4. “Dynamic Complementarities, Efficiency and Nash Equilibria for Populations of Firms and Workers” (with E. Accinelli, London and Punzo) *Journal of Economics and Econometrics* 53(1), pp. 90-110, (2010). ISSN 2032-9652 E-ISSN 2032-9660.
5. “Inflation and Economic Growth in Mexico: long-run relation and threshold effects” (with A. Risso) *Journal of Financial Economic Policy* 1(3), pp. 246-263 (2010). ISSN 1757-6385.
6. “Real Wages as Determinant of Labour Productivity in the Mexican Tourism Sector” (with Brida and Risso) *European Journal of Tourism Research* 3(1), (2010). ISSN 1994-7658.
7. “Tourism’s Impact on Long-Run Mexican Economic Growth” (with A. Risso and G. Brida). *Economics Bulletin* 23(21), pp. 1-8. (2008). ISSN 1545-2921.
8. “A Long-Run Equilibrium Demand Function: The Mexican Tourism” (with A. Risso and G. Brida). *TOURISMOS: An International Multidisciplinary Journal of Tourism* 3(1), pp. 66-82 (2008). ISSN 1790-8418.
9. “Preservation of Environmental Quality and Tourist Investments”, (with E. Accinelli and G. Brida), *European Journal of Tourism Research* 1(1), pp. 4-16, (2008). ISSN: 1994-7658.
10. “The Effects on Environmental Investment of Changes in Tourism Demand”, (with E. Accinelli, G. Brida and J. Pereyra), *TOURISMOS: An International Multidisciplinary Journal of Tourism* 2(2), pp. 129-140, (2007). ISSN 1790-8418.
11. “Second Homes: The Effects on Social Welfare of a Change on the Valuation of Individual Opportunity Cost”, (with E. Accinelli and G. Brida). *Anatolia: an international journal of tourism and hospitality research* 18(1), pp. 85-97, (2007). ISSN 1303-2917
12. “A good policy of sustainable tourism”, (with E. Accinelli y G. Brida). *Asian-African Journal of Economics and Econometrics* 7(1), pp. 521-530, (Jan-June 2007), ISSN 09723986.
13. “Rationality of Investment on White Elephants”, (with E. Accinelli and G. Brida). *Asian-African Journal of Economics and Econometrics* 7(1) pp. 491-497, (Jan-June 2007). ISSN 09723986.

#### **b) Papers in Latin-American Refereed Journals**

1. “The Evolutionary Processes for the Populations of Firms and Workers” (with E. Accinelli) *Ensayos Revista de Economía* 24(1), pp. 39-68, (2010). ISSN 1870-221X.
2. “Análisis de cointegración y valores umbrales entre inflación y crecimiento económico en México: 1970-2007” (con Risso) *Ensayos Revista de Economía*, 24(2), pp. 77-98, (2010). ISSN 1870-221X.
3. “Complementariedades dinámicas, eficiencia y equilibrio de Nash en un modelo de firmas y trabajadores” (with Accinelli, London y Punzo), *ECONOQUANTUM Economics and Business Journal* 6(1), pp. 165-84, (2010). ISSN 1870-6622.
4. “Los fundamentos estratégicos de las trampas de pobreza” (con E. Accinelli) *PERSPECTIVAS Revista de Análisis de Economía, Comercio y Negocios Internacionales* 4(1), (2010).
5. “On the uniqueness of Nash-Cournot equilibrium for all N-firms” (con Accinelli, E.), *Revista Mexicana de Economía Agrícola y de los Recursos Naturales* 2(3), pp. 126-143, julio-diciembre 2009. Universidad Autónoma de Chapingo.

## Curriculum Vitae

6. “Emergence of Long Run Behaviours in a Game Theoretic Setting with Host and Guest Populations: Residents and Tourists” (with E. Accinelli, G. Brida y L. Punzo), **Journal Papeles de Poblacion** 58(14), (2008). ISSN: 1405-7425.
7. “Unicidad del Equilibrio de Nash-Cournot bajo Correspondencias de Mejor Respuesta” (with E. Accinelli) **ECONOQUANTUM Economics and Business Journal** 4(1), (2008). ISSN 1870-6622.
8. “Un análisis del mercado de compra-venta de casas para vacaciones”, (with E. Accinelli, G. Brida and G. Cavazos). **Revista Interamericana de Ambiente y Turismo RIAT**, Vol. 2, no. 2, (2006), pp. 32-39. ISSN 0717-6651.

### **c) Chapters in Books and Conference Volumes**

1. “Poverty traps, rationality and evolution” (with E. Accinelli, S. London and L. Punzo). In **Dynamics, Games and Science (in Honour of Mauricio Peixoto and David Rand)**. Peixoto, Mauricio; Pinto, Alverto; Rand, David (Eds.), Springer-Verlag (2011), ISBN: 978-3-642-11455-7.
2. “Evolutionarily stable strategies and replicator dynamics in asymmetric two population games” (with E. Accinelli). In **Dynamics, Games and Science (in Honour of Mauricio Peixoto and David Rand)**. Peixoto, Mauricio; Pinto, Alverto; Rand, David (Eds.), Springer-Verlag (2011), ISBN: 978-3-642-11455-7.
3. “Imitative Behavior in a Two Population Model” (with E. Accinelli), **Advacens in Dynamic Games**. Applications, and Numerical Methods for Differential and Stochastic Games Dedicated to the Memory of Arik A. Melikyan. Series: Annals of the International Society of Dynamic Games, Vol. 11. Breton, Michèle; Szajowski, Krzysztof (Eds.), Springer-Verlag. ISBN: 978-0-8176-8088-6.
4. “A two population growing model: Exogamic or Endogamic” (with E. Accinelli and G. Brida). *Proceedings of The International Conference Game Theory and Management, Contributions to Game Theory and Management* (eds Leon A. Petrosjan and Nikolay A. Zenkevich), Graduate School of Management St. Petersburg State University, Russia, 2007.
5. “Tourism with or without commitment: a game theory approach”, (with E. Accinelli; G. Brida and L. Punzo). *New Perspectives and Values in World Tourism & Tourism Management in the Future* (eds A. Aktas, M. Kesgin, E. Cengiz, E. Yenialp), Proceedings of the T-K International Tourism Conference, Akdeniz University, Alanya-Turkey. pp. 543-551, November 20-22, 2006. ISBN: 975-7666-82-1.

### **d) Working papers**

1. “Labor force decisions to migrate” (with E. Accinelli and O. Salas), **School of Public Administration at the University of Gothenburg, WP n. 2011:18**. Available at: [http://www.spa.gu.se/forskning/publicerat/working\\_papers/](http://www.spa.gu.se/forskning/publicerat/working_papers/)
2. “On institutional designs and corruption by imitation” (with E. Accinelli), **Quaderni del Dipartimento di Economia Politica, n. 616 – Settembre 2011**, Università degli Studi di Siena. Available at: <http://www.econ-pol.unisi.it/dipartimento/it/node/1380>

## Curriculum Vitae

3. “Inequality and Economic Growth in China: pre- and post-reform periods” (with A. Risso), *Quaderni del Dipartimento di Economia Politica*, n. 600 – Settembre 2010, Università degli Studi di Siena. Available at: [www.econ-pol.unisi.it](http://www.econ-pol.unisi.it)
4. “The Evolutionary Game of Poverty Traps”, *Quaderni del Dipartimento di Economia Politica*, n. 555 – Febbraio 2009, Università degli Studi di Siena. Available at: [www.econ-pol.unisi.it](http://www.econ-pol.unisi.it)
5. “A model of imitative behaviour in the population of firms and workers” (with E. Accinelli and S. London), *Quaderni del Dipartimento di Economia Politica*, n. 554 – Febbraio 2009, Università degli Studi di Siena. Available at: [www.econ-pol.unisi.it](http://www.econ-pol.unisi.it)
6. “Dinámica evolutiva en un modelo de interacción entre visitantes y residentes de una localidad turística” (with E. Accinelli, J. G. Brida and L. Punzo), documento de trabajo No. 16/06, noviembre de 2006. Departamento de Economía de la Facultad de Ciencias Sociales, Uruguay. Available at: <http://www.decon.edu.uy>

## Conference and Seminar Presentations

1. “On the Notion of Evolutionary Stable Strategies and Replicator Dynamics in Asymmetric Two-Population Games” Presented at **XI Jornadas Latinoamericanas de Teoría Económica**, Universidad Autónoma de San Luis Potosí, México. September 2010.
2. “The Evolutionary Game of Poverty Traps” Presented at **Second Brazilian Workshop of the Game Theory Society, in honor of JOHN NASH on the occasion of the 60th anniversary of the Nash equilibrium**. University of Sao Paulo (Brazil), July 29 to August 5 of 2010.
3. “The Evolutionary Game of Poverty Traps” Presented at **International Conference in Honour of Salvatore Vinci, “Poverty Traps: an empirical and theoretical assessment”**. Università Degli Studi di Napoli Parthenope, Department of Economics. October 30-31 of 2009, Naples, Italia.
4. “Inflation and Mexican Economic Growth” Presented at **Banco de Mexico (Mexican Central Bank)**. June 8 of 2010, México City.
5. “Juegos evolutivos y trampas de pobreza” Presented at **Seminario de Investigación y Estudios de Teoría Económica, Facultad de Economía en la Universidad Autónoma de San Luis Potosí**. March 3 of 2009, SLP México.
6. “Theory of Games Like Tool to Model the Economic Growth” Presented at **2dn International Meeting Well-being, Growth and Tramps of Poverty. Facultad de Economía, Universidad Autónoma de San Luis Potosí**. July 15-19 of 2009, SLP México.
7. “The Interplay between Labor Skills and the Labor Market Segmentation” Presentada en el: Rimini Centre for Economic Analysis, Workshop on Dynamic Games in Economics, Rimini, Italy, 4-5 December 2008.
8. “Tourism Impact in the Long-Run Mexican Economy Growth” Presented at **6º Taller Internacional de Turismo en el Caribe**. Universidad de Quintana Roo, Cozumel, México, July 27 of 2008.
9. “Sustainable Tourism and Development: necessary conditions to avoid poverty traps” Presentada en el **First Conference of the INTERNATIONAL ASSOCIATION FOR TOURISM ECONOMICS (IATE)**, Palma de Mallorca from 25 to 27 October, 2007.

## Curriculum Vitae

10. “New Perspectives and Values in World Tourism & Tourism Management in the Future”. Presentada en el **Turk-Kazakh International Tourism Conference 2006**, University Alanya Faculty of Business. Noviembre 20-26 del 2006.
11. “Rationality of Investment in White Elephants: The case of public investments in tourist facilities in Mexico” Presentada en el **UNWTO ULYSSES CONFERENCE 2006 Governance for Excellence in Tourism Destinations**. Palacion Municipal Campo de las Naciones Madrid, Junio 1-2 de 2006.

### **Referee for:**

*“Economics Modelling”;*

*“Journal of Development Economics”*

*“Journal of Financial Economic Policy”* and;

*“ECONOQUANTUM Economics and Business Journal”*

**Computer skills:** EViews, LaTeX, Mathematica Wolfram.

### **REFERENCES:**

#### **Prof. Dr. Costas Azariadis**

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Department of Economics  
Washington University in St Louis.  
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#### **Prof. Dr. Elvio Accinelli**

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#### **Prof. Dr. Sam Bowles**

Chair at the Santa Fe Institute (USA)  
and Dipartimento di Economia Politica  
Universita di Siena  
Piazza San Francesco,7  
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#### **Prof. Dr. Lionello F. Punzo**

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Signature



**EDGAR J. SANCHEZ CARRERA**

Con l'indicazione che tutto quanto qui dichiarato corrisponde a verità ai sensi delle norme in materia di dichiarazioni sostitutive di cui agli artt. 46 e seguenti del D.P.R. 445/2000.