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EDUCATION

- M. Sc. in Geosciences. Jackson School of Geosciences. University of Texas at Austin. December 2016.
- M. Sc., Master of Science in Operation Research and Industrial Engineer. Mechanical Engineering Department. University of Texas at Austin. Graduation date: May 2005.
- MA. Master of Arts in Energy and Mineral Resources. Energy Finance. Thesis: "Business Analysis and Valuation in the Oil and Gas Industry" Petroleum Engineering Department. University of Texas at Austin. Graduation date: August 1999.
- Information System Engineer and Bachelor of Business Administration. School of Business Administration. University of Chile. Graduation date: August 1992.

RESEARCHINTERESTS

- Energy Geosciences and Economics of the Jackson School Leases – Fort Worth Basin.
- Unconventional Resources particularly Shale Gas Reservoirs.
- Forecasting of Oil and Gas Variables.

PROFESSIONAL EXPERIENCE AND CURRENT POSITIONS

University of Texas at Austin. Jackson School of Geosciences. 02/98 – Present
Title: Research Scientist Associate and Mineral Interest Asset Manager.

Main Tasks:

- Responsible for managing all the royalty assets of the Jackson School of Geosciences. The estimated economic value of the portfolio is over \$100 million.
- Design, implement, and maintain a comprehensive Geographic Information System (GIS) for oil and gas royalty assets managed by the Geology Foundation. The portfolio includes more than 1,400 oil and gas wells.
- Perform continuous analysis of production trends represented by royalty payments made to the Foundation including market forecast, decline curves analysis, impact of price on production and revenues, and distribution of revenues across various products (oil, gas, derivatives).
- Provide periodic reports to the management with analytical tools to evaluate the state of the assets including comparison of production, regional prices, and current financial instrument trends.
- Responsible for research and investigating permit applications in the region, processing all division orders including legal descriptions and royalty ownership, placing well spots into the GIS system and maintaining documentation of leases and all legal documents associated to ownership.

- Fulfill research and analysis of exploration trends in the region including new well activity and completion technologies, and ad-hoc reports as assigned by the director as business requirements provide the opportunity.
- General Statistical Analysis of geological and engineering data set for different energy projects, economic evaluation, simulation and modeling of Oil and Gas prospects.

University of Chile. School of Business Administration. 01/89-Present

Title: Full Time Research-Assistant Professor-Consultant

Main Tasks:

- Professor of Financial Analysis, Cost Accounting, and Microeconomics. Research and publish various papers in local and international conferences. Supervise undergraduate student researches.
- Consultant for the private and public sector in: Determining of the cost of capital, transaction prices in division, and financial and cost analysis, and general managerial issues.

SELECTED PUBLICATIONS

- "Cap and trade model to regulate methane emissions from unconventional gas production" IOSSBR. International Organization of Social Sciences and Behavioral Research Conference in Atlantic City, September 21-22, 2017.
- The Oil and Gas Business and the "Fracking" Issue. Revista de Contabilidad y Sistemas. Facultad de Economía y Negocios. Universidad de Chile. No 9, 2016.
- Cap and trade system as opposed to a command and control regulation for reducing air pollution from shale gas production. Encuentro Nacional de Escuelas y Facultades de Administración. ENEFA. Temuco-Chile. November 2016.
- Geothermal Exploration and Community Perception: Episodic Change and Science based Communication in a Chilean Case. 16th International Symposium on Society and Resource Management. ISSRM 2010. Corpus Christi, Texas. **June 2010**.
- Book Chapter: "Innovations and Advanced techniques in Systems, Computing Sciences and Software Engineering" ISBN: 978-1-4020-8734-9. **October 2008**. Springer. New York, NY 2008.
- Multinomial Logit Models Applied to Price Optimization. International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering. CISSE 2007. **December 2007**. E-Conference Co-Sponsored by: Institute of Electrical & Electronics Engineers (IEEE) **University of Bridgeport**.
- Qualitative Choice and Logit Models Applied to Price Optimization. **Spring 2007**. Estudios de Información y Control de Gestión, No, 12, p. 55. 2007. **University of Chile. Santiago, Chile**
- Project STARR: State of Texas advanced oil and gas resource recovery: **The University of Texas at Austin, Bureau of Economic Geology**, Texas State Lands, 60 p. **2002**.
- "State of Texas advanced oil and gas resource recovery" **The University of Texas at Austin, Bureau of Economic Geology**, State Lands Project STARR, 49 p. **2000**.
- "Business Analysis and Valuation in the Oil and Gas Industry" Thesis for Master of Arts in Energy and Mineral Resources. Petroleum Engineering Department. **The University of Texas at Austin**. **Summer 1999**
- "The Capital Structure in the Oil and Gas Industry. An Empirical Evaluation". Research Advantage: Implementing new Ideas. 49th Annual Technical Meeting. **Petroleum Society. Calgary-Canada. 1998**.
- "The Financial Information in the Risk Evaluation". Tax, Accounting and Auditing Review. Editorial Jurídica ConoSur. 62, **Chile. May 1997**

- "What is the meaning of 'Cost'?" Accounting Review, **University of Chile**. 42-43. Oct-Nov-Dec. **Chile. 1996.** "Financial Analysis: An Empiric Approximation" Accounting Studies: Economics, management, and control. No.2. **University of Chile**. Nov. **Chile. 1996.**
- "The accounting number and market return". Proceedings of the International Conference on Economics Sciences. **Argentina. 1996.**
- "Chilean Strategy of Globalization", Proceedings of the International Conference on Accounting and Economic Research, Cancun, **Mexico. 1995.**
- "Financial Analysis: Techniques and Empiricevidence" Seminario en Ingeniería en Información. **University of Chile. Chile 1995.**
- "Análisis of principal financial instruments in the Chilean Market" Seminario en Ingeniería en Información. **University of Chile. Chile 1994.**
- "Evolution of the Chilean Capital Market". Proceedings of the International Conference on Economics Sciences. **Uruguay. 1993.**
- "Process Innovation. Some Applications using Information Technology" SeminarioenIngenieríaenInformación. University of Chile. **Chile 1993.**
- "Design of an Information System to Support the Financial Management" SeminarioenIngenieríaenInformación. University of Chile. **Chile 1993.**
- "Accounting model for Options and Futures". Proceedings of the International Conference on Accounting and Economic Research, Santo Domingo, **Dominican Republic. 1993.**
- "Duration and Immunization strategies: Some Applications". Accounting Review, **University of Chile. 25. Chile. 1992.**
- "Investment Financial Instruments, Valuation and Accounting" SeminarioenIngenieríaenInformación. **University of Chile. Chile 1992.**
- "Sistema de Administración del Efectivo". Seminario en Ingeniería en Información. **University of Chile. Chile 1992.**
- "Bases para el desarrollo de un sistema de información de gestión de una entidad fiscalizadora del Mercado de valores". Seminario de Ingeniería de Información. **University of Chile. Chile. 1992.**
- "Guía de ejercicios resueltos para la cátedra de economía III" Escuela de Contadores Auditores. **University of Chile. 1988.**

AWARDS

- Jackson School of Geosciences 2006 Outstanding Employee Award
- Graduate Student Presentation Award, the Petroleum Society Technical Meeting. Calgary-Canada 1998
- Fellowship from the Energy and Mineral Resources, Petroleum Engineering Department at the University of Texas at Austin. 1997-1999
- Winner, Honorable Mention for Best Paper — International Conference on Accounting and Economic Research, Cancun, Mexico. 1995
- President of Chile Scholarship Best Class Student. 1985-1990