

José Ignacio Hernández Hernández

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STUDIES	GRADE	DATE	AREA
Universidad de Concepción, Chile	Master	2016	Natural Resources and Environmental Economics
Universidad de Concepción, Chile	Professional	2016	Business Engineer ¹
Universidad de Concepción, Chile	Bachelor	2013	Economics

MASTER THESIS:

“Effect of the Functional Form on Residential Water Demand Under Block Rates: Estimation using Discrete-Continuous Choice Models”.

Main Advisor: Professor Felipe Vásquez L. Universidad del Desarrollo.
Evaluating Committee: Professor Roberto Ponce O. Universidad del Desarrollo.
Professor Miguel Quiroga S. Universidad de Concepción.

SCHOLARSHIPS:

2018-2019 **Graduate Scholarship.** Excellence Eiffel Scholarship. Ministry of Europe and Foreign Affairs. République Française.
2014-2016 **Graduate Scholarship** CONICYT-PFCHA. National Commission of Science and Technology, Gobierno de Chile.

RESEARCH EXPERIENCE

Research Articles in peer-reviewed journals:

- Ponce, R., Vasquez-Lavín, F., San Martín, V., **Hernández, J.**, Vargas, C., Gonzalez, P., Gelcich, S. (2019): **“Ocean Acidification, Consumers’ Preferences, and Market Adaptation Strategies in the Mussel Aquaculture Industry”.** Ecological Economics. Vol 158, 42-50. DOI: [10.1016/j.ecolecon.2018.12.011](https://doi.org/10.1016/j.ecolecon.2018.12.011)
- Vasquez-Lavín, F., Ponce, R., **Hernández, J.**, Gelcich, S., Carrasco, M., Quiroga, M. (2019). **“Exploring Dual Discount Rates for Ecosystem Services: Evidence from a Marine Protected Area Network”.** Resource and Energy Economics. Vol 55, 63-80. DOI: [10.1016/j.reseneeco.2018.11.004](https://doi.org/10.1016/j.reseneeco.2018.11.004) .
- **Hernández, J.**, Hunt, A., Pazzona, M., Vásquez – Lavín, F. (2018) **“Protest treatment and its impact on the WTP and WTA estimates for theft and robbery in the UK”.** Oxford Economic Papers. Vol 70, no. 2, 468-484. DOI: [10.1093/oenp/gpx050](https://doi.org/10.1093/oenp/gpx050).

¹ Obtained in joint track with Master’s degree.

- Vázquez - Lavín, F, **Hernández, J.**, Ponce, R., Orrego, S. (2017). “**Functional Forms and Price Elasticities in the Discrete-Continuous Choice Model for Residential Water Demand**”. Water Resources Research. Vol 53, no. 7, 6296-6311. DOI: [10.1002/2016WR020250](https://doi.org/10.1002/2016WR020250).
- Vázquez - Lavín, F, Ibarregaray, V, Ponce, R, **Hernández, J.** (2016). “**Payment for Ecosystem Services in the Bolivian Sub-Andean Humid Forest**”. Journal of Environment and Development. September 2016 vol. 25 no. 3, 306-331. DOI: [10.1177/1070496516655838](https://doi.org/10.1177/1070496516655838).

In review

- Vasquez-Lavin, F., Vargas, L., **Hernández, J.**, Ponce, R.: “**The Shadow Price of Water in the Chilean Manufacturing Industry**”. Submitted to Water Resources and Economics.

SOFTWARE DEVELOPING EXPERIENCE

- **SwapAlg**: An R package to construct D-Efficient designs for Discrete Choice Experiments (DCE). Written in R.
- **EDT**: A Windows Graphical User Interface (GUI) tool to construct D-Efficient designs for Discrete Choice Experiments (DCE). Written in Python.

TEACHING EXPERIENCE:

Foreign

- May 2018 **Lecturer.** V Workshop: Choice Experiments. School of Economics and Management. Universidad Nacional Agraria La Molina, Peru.
- Feb. 2018 **Lecturer.** III Workshop: Contingent Valuation. School of Economics and Management. Universidad Nacional Agraria La Molina, Peru.

Master

- 2016 **Leveling course in Econometrics.** M.Sc. in Natural Resources and Environmental Economics – M.Sc. in Applied Economics. Universidad de Concepción, Chile.
- 2016 **Teaching Assistant.** Statistics for Business. MBA Weekend Concepción. Universidad del Desarrollo, Chile.

Undergrad.

- 2017-2018 **Lecturer.** Econometrics, Economics for Management, Microeconomics. School of Business and Economics. Universidad San Sebastián, Concepción, Chile.
- 2015-2016 **Teaching Assistant.** Industrial Organization, Consumer’s Choice Analysis. School of Business and Economics. Universidad del Desarrollo, Concepción, Chile.
- 2013 **Teaching Assistant.** Microeconomic Analysis II. School of Business and Economics. Universidad Católica de la Santísima Concepción, Chile.
- 2011-2015 **Teaching Assistant.** Microeconomics I, Microeconomics II, Microeconomics III, Macroeconomics II, Econometrics I, Econometrics II, Natural Resource Economics. School of Business and Economics. Universidad de Concepción, Chile.

ACADEMIC AND PROFESSIONAL EXPERIENCE

- 2016-2018 **Research Assistant.** Center for the Study of Multiple Drivers on Marine Socio-Ecological Systems (MUSELS). Universidad de Concepción-ICM.
- 2015-2018 **Research Assistant.** School of Business and Economics. Universidad del Desarrollo.
- 2014 **Professional Training.** Department of Statistics Services. Central Bank of Chile
- 2013-2015 **Research Assistant.** Department of Economics, Universidad de Concepción.

CONTRIBUTIONS IN ACADEMIC MEETINGS

1. Vásquez – Lavín, F., Niklitschek, M., **Hernández, J.** “**Impacto Visual de la Cosecha Forestal: Estimando el Valor del Paisaje**”. Congreso Latinoamericano de Ecología del Paisaje IUFRO-IALE. November, 2016. Temuco, Región de la Araucanía.
2. Vásquez - Lavín, F., **Hernández, J.**, Ponce, R., Orrego, S. “**Effect Of The Functional Form On The Residential Water Demand Under Block Tariffs: Estimation Using Discrete-Continuous Choice Models**”. CRHIAM-Inovagri International Meeting. October, 2016. Concepción, Región del Bio-Bío.
3. Vásquez - Lavín, F, Ibarregaray, V, Ponce, R, **Hernández, J.** “**Payment for Ecosystem Services in the Bolivian Sub-Andean Humid Forest**”. Sociedad de Economía de Chile (SECHI) Annual Meeting. Septiembre 2016. Viña del Mar, Región de Valparaíso.

CONTRIBUTIONS IN RESEARCH PROJECTS:

- 2016 **Research Assistant.** Project: “Valoración Económica del Servicio Ambiental de Provisión de Agua para Consumo Humano Generado por la Reserva Nacional Nonguén”. Corporación Nacional Forestal (CONAF), Chile. (PES Scheme Valuation)
- 2015 - 2016 **Research Assistant.** Project: “Propuesta de Instrumentos Económicos para el Control de la Contaminación en la Cuenca del Lago Villarrica”. Ministerio del Medio Ambiente, Chile. (Economic Instruments Design)
- 2015 **Researcher.** Project: “Cambio Climático y la Demanda de Energía del Sector Transporte en Honduras”. Economic Commission for Latin America and the Caribbean (ECLAC). (Energy Demand and Determinants of Energy Consumption)
- 2014-2015 **Research Assistant.** FONDECYT Regular Project: “Field Experiments on Cooperative Management of Local Common Resources”. Comisión Nacional de Ciencia y Tecnología, Gobierno de Chile. (Field Experiments Application)
- 2013 **Research Assistant.** Project: “Evaluación Socio-Económica de la Aplicación de Medidas de Administración sobre la Pesquería Mixta de Pequeños Pelágicos de la Zona Centro Sur”. Subsecretaría de Pesca y Acuicultura, Gobierno de Chile. (Economic Evaluation of Economic Instruments on Fisheries).

- 2013 **Research Assistant.** FONDECYT de Iniciación Project: “La Economía Política de las Elecciones Municipales: Influencia de las Características Comunes, de Desempeño, Gasto Electoral e Ideología Política en las Elecciones de 2004 y 2008”. Comisión Nacional de Ciencia y Tecnología, Gobierno de Chile. (Electoral Determinants Analysis).
- 2012 **Research Assistant.** Project: “Valuing Climate Change Impacts on Human Health in Latin America: The Case of Water-Borne Diseases and Deaths Causes by Extreme Hydrological Events”. CATIE-IDRC. (Valuation of Health diseases).
- 2012 **Research Assistant.** Project: “Diagnóstico de las Principales Pesquerías Nacionales, desde la Perspectiva del Modelo de Recuperación Económica de Pesquerías Propuesto por la Organización para la Cooperación y el Desarrollo Económico (OCDE)”. Subsecretaría de Pesca, Gobierno de Chile. (Analysis of Recovering Policies on Fisheries Stock).

REFERENCES:

- **Professor Felipe Vásquez Lavín.** Researcher and Professor. School of Business and Economics, Universidad del Desarrollo. +56-412686621. fvasquez@udd.cl.
- **Professor Roberto Ponce Oliva.** Researcher and Professor. School of Business and Economics, Universidad del Desarrollo. +56-412686621. robertoponce@udd.cl.
- **Professor Claudio Parés Bengoechea.** Director. Department of Economics, Universidad de Concepción. +56-412204503. cpares@udec.cl.