

Carlos Eduardo Quezada Lambertin

Researcher, Instituto de Investigaciones Socio-Económicas (IISEC), Universidad Católica Boliviana
Doctoral student, Department of Agricultural Economics, Faculty of Bioscience Engineering, Ghent University

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La Paz, Bolivia

My doctoral research focuses on high-Andean wetlands (bofedales) as part of complex socio-ecological systems, seeking to co-construct pathways toward resilience and sustainability together with local communities. Alongside this work, I also study sustainable agriculture, forest governance, land degradation, and socio-environmental challenges in Bolivia. My experience combines agricultural and environmental modeling, remote sensing, geospatial analysis, and participatory methodologies to better understand and strengthen the resilience of socio-ecological systems facing environmental pressures and territorial transformations.

- **Geospatial Analysis:** Google Earth Engine, Python, QGIS, ArcGIS.
- **Hydrological & Ecosystem Modeling:** SWAT, APEX
- **Drone Operations:** Piloting for environmental data collection and mapping.
- **Collaborative / Counter-Mapping:** Community-based and critical mapping integrating local knowledge.

EDUCATION

2023 – present – Doctoral student in Bioscience Engineering, Ghent University, Belgium.
2021 - Postgraduate Training in Food Security And Food Systems, Universidad Católica Boliviana
2020 – Bachelor In Environmental Engineering, Universidad Católica Boliviana

PUBLICATIONS

Quezada-Lambertin, C., Rodríguez-Montellano, A., & Benavides, J. P. (2025). Ecosistemas terrestres en transformación: Deforestación, conversión y cambio en la cobertura natural de Bolivia. In F. Wanderley & C. Quezada Lambertin (Eds), *Bolivia en su Bicentenario. Crisis, transiciones y oportunidades para un nuevo pacto de desarrollo* (pp. 77–102). Instituto de Investigaciones Socio-Económicas (IISEC), Universidad Católica Boliviana “San Pablo” / Plural Editores.

Quezada-Lambertin, C., Benavides, J. P., Alanoca Nina, K. D., Rodríguez-Montellano, A., Alvizuri-Tintaya, P. A., & Soria, F. (2025). Recursos hídricos superficiales y glaciares: Tendencias, presiones y desafíos para su gestión sostenible. In F. Wanderley & C. Quezada Lambertin (Eds.), *Bolivia en su Bicentenario. Crisis, transiciones y oportunidades para un nuevo pacto de desarrollo* (pp. 61–75). Instituto de Investigaciones Socio-Económicas (IISEC), Universidad Católica Boliviana “San Pablo” / Plural Editores.

Wanderley, F., & **Quezada-Lambertin, C.** (Eds). (2025). *Bolivia en su Bicentenario. Crisis, transiciones y oportunidades para un nuevo pacto de desarrollo*. Instituto de Investigaciones Socio-Económicas (IISEC), Universidad Católica Boliviana “San Pablo” / Plural Editores. La Paz, Bolivia

Quezada-Lambertin, C., Villafuerte-Philippsborn, L., Irahola-Meléndrez, F., Trigos-Zegarra, N., Paz-Morales, L., Didriksson-Vargas, C., Salazar-Morales, C., & Benavides-López, J.-P. (2025). From water security to food security: Socio-environmental challenges of construction aggregate mining in Bolivian Altiplano communities. *Revista Chilena de Nutrición*, 52(Suppl. 3), 70–79. [https://api.index-360.com/media/article/pdf_1/17504/RCHNUT_V52-Suppl_3-08%20\(0\).pdf?action=open](https://api.index-360.com/media/article/pdf_1/17504/RCHNUT_V52-Suppl_3-08%20(0).pdf?action=open)

Slosse, W., Benavides, J. P., Branisa, B., Buysse, J., D’Haese, M., **Quezada Lambertin, C. E.**, & Schoors, K. (2025). Ripples of reciprocity: Navigating trust and collective governance in hydrosocial territories. *World Development*, 188, 106900. <https://doi.org/10.1016/j.worlddev.2024.106900>

Vigabriel Navarro, L. M., Osorio Leyton, J. M., **Quezada Lambertin C.**, Benavides J. P. (2024) Estimación de la biomasa del cultivo de cebada (*Hordeum vulgare*L.) mediante teledetección de imágenes multispectrales. *Revista de Investigación e Innovación Agropecuaria y de Recursos Naturales*. Vol 11 (2).19-29. DOI: 10.53287/iguo9951ru99j

Quezada Lambertin, C., Nina Vargas, M., Vigabriel Navarro, L. (2023). *Estimación del indicador 15.3.1: Proporción de tierras degradadas en comparación con la superficie total de los Municipios y Territorios Indígenas de Bolivia* (IISEC-UCB Documento de Trabajo 202303). La Paz, Bolivia: Instituto de Investigaciones Socio-Económicas. Disponible en: <https://iisec.ucb.edu.bo/publicaciones-documentos-de-trabajo-iisec-bolivia>

Nina Vargas, M., Flores Quisbert, R., **Quezada Lambertin, C.** (2023). *Estimación del indicador 6.6.1: Proporción de cuencas hidrográficas de municipios y territorios indígenas de Bolivia que experimentan grandes cambios en la extensión de sus aguas superficiales* (IISEC-UCB Documento de Trabajo 202302). La Paz, Bolivia: Instituto de Investigaciones Socio-Económicas. Disponible en: <https://iisec.ucb.edu.bo/publicaciones-documentos-de-trabajo-iisec-bolivia>

Sayol, J.M., Azeñas, V., **Quezada, C.E.**, Benavides, J.P. (2022) *Is greenhouse rainwater collection enough to satisfy the water demand of own crops? The Bolivian Altiplano case*. *Hydrology*. 9, 107. <https://doi.org/10.3390/hydrology9060107>

Quezada Lambertin, C.E. (2021). Adaptation to the impacts of climate change in potato-based agricultural systems in the Bolivian Altiplano (IISEC-UCB Working Paper No. 6). Available at: http://www.iisec.ucb.edu.bo/assets_iisec/publicacion/202106.pdf

Quezada Lambertin, C.E., Osorio Leyton, J.M., Benavides López, J.P. (2021). Calibration and validation of the APEX model for three potato cultivars produced in the Andean region of Bolivia. *Latin American Journal of Economic Development*, Special Issue.

Quezada Lambertin, C.E. (2020). Forest governance in Bolivia: Are indigenous territories effective for forest conservation? In *Entre el desarrollo y los extractivismos: El dilema de la producción en Bolivia*, Zelaya, M. (Ed.); Foro Andino Amazónico de Desarrollo Rural: La Paz; pp. 85–144, ISBN 2013206534.

MEDIA & OUTREACH PUBLICATIONS

Quezada-Lambertin, C., Czaplicki, S., & Gottret, S. (2025). Radiografía al 2024 de la deforestación y conversión de ecosistemas no boscosos en Bolivia. *Revista Nómadas / IISEC-UCB*. <https://revistanomadas.com/radiografia-al-2024-de-la-deforestacion-y-conversion-de-ecosistemas-no-boscosos-en-bolivia/>

Czaplicki, S., Mercado, L., & **Quezada-Lambertin, C.** (2025). ¿Bom Futuro en Bolivia?: El gigante de la soya brasileña deja en vilo a INPA, una isla de bosque de 30.019 hectáreas en la Chiquitania. *Revista Nómadas*. <https://revistanomadas.com/bom-futuro-en-bolivia-el-gigante-de-la-soya-brasilena-deja-en-vilo-a-inpa-una-isla-de-bosque-de-30-019-hectareas-en-la-chiquitania/>

Czaplicki, S., **Quezada-Lambertin, C.,** & Navia, R. (2025). En una Bolivia devorada por su propia frontera agrícola, San Ignacio de Velasco es el plato fuerte. *Revista Nómadas*. <https://revistanomadas.com/en-una-bolivia-devorada-por-su-propia-frontera-agricola-san-ignacio-de-velasco-es-el-plato-fuerte/>

Czaplicki, S., & **Quezada-Lambertin, C.** (2025). Los dueños del desmonte: ¿Quién deforesta San Ignacio de Velasco? *Revista Nómadas*. <https://revistanomadas.com/los-duenos-del-desmonte-quien-deforesta-san-ignacio-de-velasco/>

WORK EXPERIENCE

Instituto de Investigaciones Socio-Económicas (IISEC) - Universidad Católica Boliviana

Full time Researcher

May/2022 – Present

Junior Researcher

Jan/2020 – Apr/2022

Research assistant

Feb/2019 – Dec/2019

Centro de Estudios de la Realidad Económica y Social (CERES)

Junior Researcher

Research grant

Sep/2020 – Feb/2021

Swiss Red Cross –Bolivia program

Internship disaster risk management

Sep/2018 -Feb/2019

CONSULTING PROJECTS

Project: “Generation of a Digital Elevation Model for Three Intervention Zones prioritized by the Bolivia Resilient Program against Climate Risks, Potosí and Tarija.”

Consulting firm: Beamster Cons.

07/Feb/2020 - 10/Apr/2020

Project: “Generation of a Digital Elevation Model in tributaries of the Rocha River for the municipalities of Vinto, Quillacollo, Colcapirhua and Cercado, Cochabamba”.

Consulting firm: Beamster Cons.

01/Jan/2020 - 28/Feb/2020

Project: "Disaster Risk Analysis in three communities of Guanay, La Paz"

Consulting firm: Beamster Cons.

01/Jul/2019 - 27/Dec/2019

Project: "Loss Replacement Program for the Hydraulic Conditioning of the Rocha and Titiri Rivers"

Consulting firm: Beamster Cons.

04/Feb/2019 - 28/Jun/2019

SCHOLARSHIPS AND RESEARCH GRANTS

Research Funds Global minds

VLIR UOS – Ghent University

Research Project: " *An in-depth analysis of social-ecological interactions in Andean high-altitude wetlands: Towards resilience pathways* "

Sep/2025- Sep/2026

International Programme on Research and Training on Sustainable Management of Mountain Areas Mountain Partnership Secretariat, FAO, University of Turin, University of Tuscia, and National Research Council of Italy

Programme: *Glaciers: Understanding, Preserving and Adapting to Climate Change*

Italy

Jun. 2025 – Jul. 2025

Doctoral scholarship, VLIR UOS IUC

Doctoral programme in Bioscience Engineering, Ghent University, Belgium

Sep/2023 – Present

Research Funds "Pequeños proyectos de Investigación", 5th versión.

Universidad Católica Boliviana

Research Project: " *¿Are greenhouses socioeconomically and environmentally sustainable?* "

Feb/2021- Feb/2022

Postgraduate training Scholarship

Postgraduate Training in Food Security and Food Systems– Universidad Católica Boliviana

Nov/2020

Funds for Young Researchers

Foro Andino Amazónico de Desarrollo Rural – Centro de Investigación y Promoción del Campesinado

Research project: " *Forest governance in Bolivia: ¿Are indigenous territories effective for forest conservation?* "

Oct/2020

Research Training Grant

Centro de Estudios de la Realidad Económica y Social (CERES)

Sept/2020

Research Assistant Grant

Hanns Seidel Stiftung – Instituto de Investigaciones Socio Económicas – UCB

Feb/2019

AWARDS & RECOGNITIONS

Special investigative series on deforestation in San Ignacio de Velasco, *Revista Nómadas*:

Conservation International Bolivia Award for Nature Reporting – *Second Prize*.

MapBiomass International Award (Brazil) – *First Prize. Special Category: Actions to Reduce Deforestation*.

Franz Tamayo Award for Investigative Journalism – *First Prize. Category: Investigative Magazine*.

LANGUAGES

English – C1

Spanish – Native

REFERENCES

Fernanda Wanderley, Ph.D. - fwanderley@ucb.edu.bo

Instituto de Investigaciones Socio Económicas – Universidad Católica Boliviana - Director

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Jean Paul Benavides, Ph.D. - jeanpaul.benavides@gmail.com

Centro de Estudios de la Realidad Económica y Social (CERES) - Asociado

Stijn Speelman, Ph.D. - stijn.speelman@ugent.be

Department of Agricultural Economics – Ghent University - Professor

Mgr. José Ugarte. - info@beamster.tech

Consultancy Firm Beamster Cons - Manager

June, 2026