

JESÚS N. PINTO LEDEZMA

Department of Ecology, Evolution and Behavior • University of Minnesota • St Paul, MN 55108

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RESEARCH INTERESTS

I am an evolutionary and quantitative ecologist whose work focuses on developing a deeper understanding of species coexistence and patterns of diversity across spatial and temporal scales, and the underlying processes that drive, maintain and alter such patterns. I have a passion for science and for diversity and inclusion in education and research.

EDUCATION

Ph.D., Ecology and Evolution 2013-2017

Universidade Federal de Goiás - Goiânia Goiás, Brazil

Dissertation: *Origin and assembly of Furnariides assemblages across space and time: the role of historical processes*

Advisor: José Alexandre Felizola Diniz-Filho

M.S., Wildlife Management 2006-2009

Universidad Nacional de Córdoba - Córdoba Córdoba, Argentina

Dissertation: *Determination of special protected areas for the conservation of migratory birds in the Mar Chiquita Reserve*

Advisors: Adrian H. Farmer and Enrique H. Bucher

B.A., Biology 2001-2006

Universidad Autónoma Gabriel René Moreno Santa Cruz, Bolivia

Distinction in All Subjects. *Cum Laude Honors*

Advisor: Teresa Ruiz de Centurión

PROFESSIONAL APPOINTMENTS

Research Scientist 2020-present

University of Minnesota, Department of Ecology Evolution and Behavior St Paul, MN, USA

Grand Challenge in Biology Postdoctoral Fellow 2017-2020

University of Minnesota, Department of Ecology Evolution and Behavior St Paul, MN, USA

Research Associate 2009-present

Museo de Historia Natural Noel Kempff Mercado Santa Cruz, Bolivia

Ad Honorem

Guest Lecturer 2012-2013

Carrera de Biología, Universidad Autónoma Gabriel René Moreno Santa Cruz, Bolivia

Visiting Researcher 2010-2011

Centro de Pesquisas do Pantanal, Universidade Federal de Mato Grosso Cuiabá, Bolivia

Intern 2003-2006

Museo de Historia Natural Noel Kempff Mercado Santa Cruz, Brazil

Bolivian Military Service 2000-2001

Air Force Santa Cruz, Bolivia

AWARDS AND FELLOWSHIPS

AAAS/Science Membership Award, the American Association for the Advancement of Science Program for Excellence in Science 2020-present

Grand Challenges in Biology Postdoctoral Program, University of Minnesota, College of Biological Sciences 2017-2020

CAPES PhD fellowship, Coordination for the Improvement of Higher Education Personnel, Brazil 2015-2017

OEA-CGUB Doctoral Scholarship, Organization of American States (OAS) and the Coimbra Group of Brazilian Universities (GCUB), Brazil 2014-2015

Master's Program in Wildlife Management, US Wildlife Service, Universidad Nacional de Córdoba, Córdoba, Argentina 2006-2008

ISSLR Membership and Travel Award, International Society of Salt Lake Research 2011

SWS Membership Award, Society of Wetlands Scientists 2010-2013

SCB Membership Award, Society for Conservation Biology - A global community of conservation professionals 2007-2009

Best Student Award for the Biology Major, Universidad Autónoma Gabriel René Moreno, Santa Cruz de la Sierra, Bolivia 2005

RESEARCH ACTIVITIES

FEDERAL GRANTS: *Total awarded USD 5,886,664*

NASA ROSES Biodiversity: Mapping changes in forest diversity and disease in North American temperate forests. 2021-2024

Role: Co-Investigator

Cavender-Bares, Jeannine (PI, UMN), Townsend, Philip (co-PI, UW). — **Award: USD 481,933.**

National Science Foundation, MSA: Integrating biodiversity observations with airborne and satellite data to predict shifts in assemblage diversity and composition under global change. 2020-2023

Role: Principal Investigator

Pinto-Ledezma, Jesús N. (PI, UMN), Cavender-Bares, Jeannine (co-PI, UMN). — **Award: USD 299,375.**

National Science Foundation, BII Implementation: The causes and consequences of plant biodiversity across scales in a rapidly changing world. 2020-2025

Role: Co-Investigator

Cavender-Bares, Jeannine (PI, UMN), Townsend, Philip (co-PI, UW), Reich, Peter (co-PI, UMN), José E. Meireles (co-PI, UMaine), Amy Trowbridge (co-PI, UW). More information at: <https://www.spectralbiology.org>. — **Total award: USD 12,5000,000.** Awarded to date: USD 5,105,356.

NON-FEDERAL GRANTS: *Total awarded USD 188,508*

College of Biological Sciences, UMN, Grand Challenges in Biology Postdoctoral Fellowship: Evaluating the roles of ecological and historical processes in biological invasions. 2017-2020

Role: Postdoctoral Fellow

— **Award: USD 157,500.**

Academia Nacional de Ciencias de Bolivia, Capitulo Santa Cruz: Amphibians as a model of biological control in agricultural areas of central Santa Cruz, Bolivia. 2016-2017

Role: Co-Principal Investigator

Pinto, Marco Aurelio (PI), **Pinto-Ledezma, Jesús N.** (Co-PI). — **Award: USD 1,500.**

Rufford Foundation: Rescuing the biodiversity of the Cerro Mutún: a basis for generation the conservation measures for Bolivian biodiversity. 2016-2017

Role: Co-Principal Investigator

Villarroel, Daniel (PI), **Pinto-Ledezma, Jesus N.** (Co-PI). — **Award: USD 7,674.**

Rufford Foundation: Long-Term Effects of Habitat Modification on Amphibians in the Yungas and Inter-Andean Dry Valley Ecoregions. 2013-2014

Role: Co-Principal Investigator

Sosa, Ronald (PI), **Pinto-Ledezma, Jesús N.** (Co-PI). — **Award: USD 6,568.**

Rufford Foundation: The Hyacinth Macaw Program: Population Status and Conservation of the Hyacinth Macaw. 2013-2014

Role: Principal Investigator

Pinto-Ledezma, Jesús N. (PI). — **Award: USD 7,168.**

Academia Nacional de Ciencias de Bolivia, Capítulo Santa Cruz: Analysis of effect of the land use change on amphibian communities in the Mutun region. 2012-2013

Role: Principal Investigator

Pinto-Ledezma, Jesús N. (PI). — **Award: USD 1,500.**

Academia Nacional de Ciencias de Bolivia, Capítulo Santa Cruz: Areas for the conservation of the Hyacinth macaw. 2011-2012

Role: Principal Investigator

Pinto-Ledezma, Jesús N. (PI). — **Award: USD 1,500.**

Rufford Foundation: Testing a Habitat Model for the Hyacinth macaw (*Anodorhynchus hyacinthinus*) and Mapping HS for the Species in Protected Areas in Bolivian Pantanal. 2009-2011

Role: Principal Investigator

Pinto-Ledezma, Jesús N. (PI). — **Award: USD 5,098.**

PUBLICATIONS

As of September 2021, I have published 20 articles in indexed journals, 11 in non-indexed journals, 4 peer-reviewed book chapters and 3 non peer-reviewed book chapters.

**Undergraduate student*

20. **Pinto-Ledezma, J.N.** and J. Cavender-Bares. (2021). Predicting species distributions and community composition using satellite remote sensing predictors. *Scientific Reports*.

19. Cavender-Bares, J., P. Reich, P.A. Townsend, A. Banerjee, E. Butler, A. Desai, A. Gevens, S. Hobbie, F. Isbell, E. Laliberté, J.E. Meireles, H. Menninger, R.P. Pavlick, **J.N. Pinto-Ledezma**, C. Potter, M.C. Schuman, N. Springer, A. Stefanski, P. Trivedi, A. Trowbridge, L. Williams, C.G. Willis and Y. Yang. (2021). BII-Implementation: The causes and consequences of plant biodiversity across scales in a rapidly changing world. *Research Ideas and Outcomes*, 7: e63850.

18. **Pinto-Ledezma, J.N.**, F. Villalobos, P. Reich, J. Catford, D. Larkin and J. Cavender-Bares. (2020). Testing Darwin's naturalization conundrum based on taxonomic, phylogenetic and functional dimensions of vascular plant diversity. *Ecological Monographs*, 90(4): e01420.

17. Cavender-Bares, J., C. Fontes and **J.N. Pinto-Ledezma**. (2020). Open questions in understanding the adaptive significance of plant functional trait variation within a single lineage. *New Phytologist*, 227(3): 659-663.

16. **Pinto-Ledezma, J.N.**, A.E. Jahn, V.R. Cueto, J.A.F. Diniz-Filho and F. Villalobos. (2019). Drives of phylogenetic assemblage structure of the Furnariides, a widespread clade of lowland Neotropical birds. *The American Naturalist*, 193(2): E41-E56.

15. **Pinto-Ledezma, J.N.**, D. Larkin and J. Cavender-Bares. (2018). Patterns of beta diversity of vascular plants and their correspondence with biome boundaries across North America. *Frontiers in Ecology and Evolution*, 6: 194.
14. Pereira, E., **J.N. Pinto-Ledezma**, C. de Freitas, F. Villalobos, R. Collevati and N. Medeiros. (2017). Evolution of anuran foam nest: trait conservatism and lineage diversification. *Biological Journal of the Linnean Society* 122(4): 814-823.
13. **Pinto-Ledezma, J.N.**, L. Simon, J.A.F. Diniz-Filho and F. Villalobos. (2017) The geographic diversification of Furnariides: the role of forest versus open habitats in driving species richness gradients. *Journal of Biogeography*, 44(8): 1683-1693.
12. Cseko, E., W. Franca-Rocha, T. Moura and **J.N. Pinto-Ledezma**. (2017). New range limit of the Broad-tipped Hermit (*Anopetia gounellei*, Aves: Trochilidae): the state of art and a review on the range area. *Pápeis avulsos de Zoologia*, 57(21): 275-285.
11. *Sosa R., Ch. Schalk, L. Braga and **J.N. Pinto-Ledezma**. (2015). Geographic Distribution: *Rhinella amoroensis* (Cochabamba toad) *Herpetological Review*, 46(2): 214.
10. **Pinto-Ledezma, J.N.** and *M.L. Rivero. (2014) Temporal patterns of deforestation and fragmentation in Lowland Bolivia: Implications for climate change. *Climatic Change*, 127: 43-54.
9. **Pinto-Ledezma, J.N.**, V.X. Sandoval, V.N. Pérez, T.J. Caballero, *K. Mano, *M.A. Pinto and *R. Sosa. (2014). A spatial explicit habitat model for the Hyacinth Macaw (*Anodorhynchus hyacinthinus*) in the Bolivian Pantanal (Santa Cruz, Bolivia). *Ecología en Bolivia*, 49(2): 1605-2528.
8. Jahn A.E., D.J. Levey, V. Cueto, **J.N. Pinto-Ledezma**, D. Tuero, J.W. Fox and D. Masson. (2013). Patterns of long-distance bird migration in South America as revealed by light-level geolocators. *The Auk*, 130(2): 223-229.
7. Jahn A.E., V. Cueto, J.W. Fox, M.S. Husak, **J.N. Pinto-Ledezma**, D.H. Kim, D.V. Landoll, H.K. Lepage, D.J. Levey, M.T. Murphy and R.B. Renfrew. (2013) Migration timing and wintering areas of three species of Tyrannus flycatchers breeding in the great plains of North America *The Auk*, 130(2): 247-257.
6. *Sosa R., Ch. Schalk, L. Braga and **J.N. Pinto-Ledezma**. (2013). *Micrurus serranus* (NCN) diet. *Herpetological Review*, 44(1): 155.
5. *Sosa R., Ch. Schalk, L. Braga and **J.N. Pinto-Ledezma**. (2013). *Phyllorhynchus psammohidea* (Gunther's green racer) diet. *Herpetological Bulletin*, 124: 24.
4. *Sosa R., Ch. Schalk, L. Braga and **J.N. Pinto-Ledezma**. (2012). *Clelia langeri* (NCN) diet. *Herpetological Review*, 43(4): 657.
3. Jahn A.E., **J.N. Pinto-Ledezma**, A.M. Mamani, L.W. De Groote and D.J. Levey. (2010). Patterns of home range size and habitat occupancy of Tropical Kingbird (em Tyrannus m. melancholicus) in the southern Amazon Basin. *Ornitología Neotropical*, 12: 39-46.
2. **Pinto-Ledezma, J.N.** and T. Ruiz de Centurión. (2010). Deforestation and fragmentation patterns 1976-2006 in San Julian district (Santa Cruz, Bolivia). *Ecología en Bolivia*, 45(2): 101-115.
1. Villarroel D., **J.N. Pinto-Ledezma**, T. Ruiz de Centurión and A. Parada. (2009) Relationship between the woody cover and herbs richness in three Cerrado *sensu lato* physiognomies (Cerro Mutún, Santa Cruz, Bolivia). *Ecología en Bolivia*, 44(2): 83-98.

BOOK CHAPTERS:

4. **Pinto-Ledezma, J.N.** and J. Cavender-Bares. (2020). Using remote sensing for modeling and monitoring species distributions. In Cavender-Bares, J., J. Gamon and P. Townsend (Eds.) *Remote Sensing of Plant Biodiversity. Springer Remote Sensing/Photogrammetry Series*.

3. Cavender-Bares, J., A. Schweiger, **J.N. Pinto-Ledezma** and J.E. Meireles. (2020). Applying remote sensing to biodiversity science. In Cavender-Bares, J., J. Gamon and P. Townsend (Eds.) *Remote Sensing of Plant Biodiversity. Springer Remote Sensing/Photogrammetry Series*.
2. Villalobos, F., **J.N. Pinto-Ledezma** and J.A.F. Diniz-Filho. (2020). Evolutionary macroecology and the geographical patterns of Neotropical diversification. In Rull, V. and A.C. Carnaval (Eds.) *Neotropical diversification: patterns and processes. Springer Nature AG*.
1. Contributing author in: Cavender-Bares, J. et al. Chapter 3 Status and trends of biodiversity and ecosystem functions underpinning nature's benefit to people. In IPBES (2018): *The IPBES regional assessment report on biodiversity and ecosystem services for the Americas*. 207-362 Pp. Rice et al. (Eds). *Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany*.

PAPERS IN NON-INDEXED JOURNALS:

11. **Pinto-Ledezma, J.N.**, M.A. Montenegro and D. Villarroel. (2017). Historia Natural del Cerro Mutún V: la avifauna. *Kempffiana*, 13(2): 10-28.
10. Villarroel, D., G. Aramayo, M. Martínez, C. Proença, C. Munhoz, B. Klitgaard, **J.N. Pinto-Ledezma** and M. Nee. (2017) Historia Natural del Cerro Mutún VI: flora y vegetación, checklist, estado de conservación y nuevos registros para Bolivia. *Kempffiana*, 13(2): 29-74.
9. *Pinto, M.A., *K. Mano-Cuellar, D. Villarroel and **J.N. Pinto-Ledezma**. (2017). Historia Natural del Cerro Mutún IV: la herpetofauna. *Kempffiana*, 13(1): 116-128.
8. **Pinto-Ledezma, J.N.** and D. Villarroel. (2016). Historia Natural del Cerro Mutún I: síntesis geográfica, geofísica, climática y socioeconómica. *Kempffiana*, 12(2): 29-38.
7. *Pinto, M.A. and **J.N. Pinto-Ledezma**. (2015). Listado preliminar de anfibios de la propiedad Benevento (Santa Cruz, Bolivia). *Kempffiana*, 11(1): 23-27.
6. *Pinto M.A., D. García, K. Mano and **J.N. Pinto-Ledezma**. (2015). Listado de anfibios y reptiles de la propiedad Juan Deriba, Santa Cruz, Bolivia. *Kempffiana*, 11(1): 70-75.
5. *Mano K., *M.A. Pinto, *R. Sosa, D. Villarroel and **J.N. Pinto-Ledezma**. (2015). Reptile fauna of the Mutún region (Santa Cruz department, Bolivia): species list and conservation status. *Kempffiana*, 11(1): 66-69.
4. **Pinto-Ledezma, J.N.**, T.J. Caballero, B. Flores, V.N. Perez, *K. Mano and *M.A. Pinto. (2014). Lista preliminar de las aves de la propiedad Juan Deriba, Santa Cruz, Bolivia. *Kempffiana*, 10(2): 1-11.
3. *Sosa R., L. Braga and **J.N. Pinto-Ledezma**. (2014). The amphibian fauna of the Southwest Amboró National Park, Santa Cruz, Bolivia. *Kempffiana*, 10(2): 31-35.
2. **Pinto-Ledezma, J.N.** and M.A. Aponte. (2013) Algunas notas sobre la reproducción de aves en la Reserva de Vida Silvestre Ríos Blanco y Negro. *Kempffiana*, 9(1): 21-25.
1. **Pinto-Ledezma, J.N.**, aR. Sosa, M. Paredes, I. García, D. Villarroel and S. Muyucundo. (2011). The Hyacinth macaw (*Anodorhynchus hyacinthinus*): population status and its conservation in Bolivian Pantanal. *Kempffiana*, 7(2): 15-37..

NON PEER-REVIEWED BOOK CHAPTERS:

3. Mostacedo B., M., Toledo, D. Villarroel, **J.N. Pinto-Ledezma**, G. Carreño-Rocabado, B. Flores and Y. Uslar. (2014). Memorias del IV Congreso Boliviano de Ecología. 4-6 de Junio 2014. Universidad Autónoma Gabriel Rene Moreno, Santa Cruz, Bolivia.

2. Azurduy H. and **J.N. Pinto-Ledezma** (2012). El escenario ecológico y geográfico. 6-13 pp. In: Azurduy and Rivero (Eds). Historia Natural de la Serranía Incahuasi. NHNNKM-Total. *Museo de Historia Natural Noel Kempff Mercado*.

1. Villarroel D., L. Arroyo and **J.N. Pinto-Ledezma** (2012). (2009). La vegetación de Bella Vista. 45-68 Pp. In: Arroyo and Churchill (Eds). Investigaciones botánicas en la región de Bella Vista, departamento de Santa Cruz, Bolivia: una base para la conservación. *Museo de Historia Natural Noel Kempff and Missouri Botanical Garden*.

PUBLICATIONS (IN REVIEW OR REVISION)

6. Fontes, C., **J.N. Pinto-Ledezma**, A.L. Jacobsen, R.B. Pratt and J. Cavender-Bares. (First revision). Adaptive variation among oaks in wood anatomical properties is shaped by climate of origin and shows limited plasticity across environments. *Functional Ecology*.

5. Arango, A., **J.N. Pinto-Ledezma**, O. Soto-Rojas and F. Villalobos. (First revision). Evidences of widespread sympatry as the main driver of diversification for Emberizoidea (Aves). *Journal of Biogeography*.

4. Mendes, L., **J.N. Pinto-Ledezma**, T.F.L.V.B. Rangel and R. Dunn. (First revision). Urban warming inverse contribution on risk of dengue transmission in the southeastern North America. *Proceedings of the Royal Society: Biological Sciences*. Available online at: <https://www.biorxiv.org/content/10.1101/2020.01.15.908020v1>.

3. Velasco, J.A., G. Campillo-García, **J.N. Pinto-Ledezma**, and O. Villela-Flores. (Second revision) Spatiotemporal dimensions of a reproductive life history trait in a spiny lizard radiation (Squamata: Phrynosomatidae). *Proceedings of the Royal Society: Biological Sciences*. Available online at: <https://www.biorxiv.org/content/10.1101/2020.06.17.157891v1>.

2. Velasco, J.A. and **J.N. Pinto-Ledezma**. (First revision). Mapping diversification metrics in macroecological studies: prospects and challenges. *Ecography*. Available online at: <https://www.biorxiv.org/content/early/2018/02/08/261867.1>.

1. Souza, K., **J.N. Pinto-Ledezma**, R. Dobrovolski, M. Telles, T. Soares, C. Ruas and J.A.F. Diniz-Filho. (First revision). How to measure the influence of landscape population genetic structure: developing resistance surfaces using a pattern-oriented modeling approach. *Genetica*. Available online at: <https://www.biorxiv.org/content/10.1101/2020.02.20.958637v1?rss=1>.

TEACHING AND ADVISING

CORE TEACHING:

University of Minnesota: Department of Ecology, Evolution & Evolution

EEB 3534: **Biodiversity Science** (Instructor of record) Spring 2021

EEB 5534: **Biodiversity Science** (Instructor of record) Spring 2021

Lab material at: <https://jesusnpl.github.io/teaching/>

EEB 3534: **Biodiversity Science** (Instructor of record) Spring 2020

EEB 5534: **Biodiversity Science** (Instructor of record) Spring 2020

Lab material at: <https://github.com/jesusNPL/BiodiversityScience/Spring2020>

EEB 5534: **Biodiversity Science** (Instructor of record) Spring 2019

EEB 3534: **Biodiversity Science** (Instructor of record) Spring 2019

Lab material at: <https://github.com/jesusNPL/BiodiversityScience/Spring2019>

Universidade Federal de Goiás: Department of Ecology

Phylogenetic Comparative Methods (Teaching Assistant) Spring 2016

Lab material at: <http://dinizfilho.wixsite.com/dinizfilholab/>

Universidad Autónoma Gabriel René Moreno: Carrera de Biología

ZOO 344: **Vertebrate Zoology** (Guest Lecturer)

Spring 2012, 2013

Landscape Ecology (Guest Lecturer)

Spring 2015, 2017

Master en Manejo de Recursos Naturales y Medio Ambiente

ADDITIONAL TEACHING:

University of Minnesota: Department of Fisheries, Wildlife and Conservation Biology

Introduction to patterns of biodiversity (Guest Lecturer)

Oct, 2019

Lab material at: <https://github.com/jesusNPL/LargeScale>

Universidad Autónoma Gabriel René Moreno: Carrera de Biología

ZOO 344: **Vertebrate Zoology** (Teaching Assistant)

Spring 2003-2005, Fall 2003-2005

Six semesters

Universidad Autónoma Gabriel René Moreno: Department of Botany

Introduction of statistics (Instructor)

Mar, 2012, 2013, 2014

Three intensive courses of one week each

Universidad Autónoma Gabriel René Moreno: IV Congreso Boliviano de Ecología

Species distribution modeling with R (Instructor)

Jun, 2014

Three days course

DIRECTED STUDENT MENTORING:

PhD Thesis Committee:

Axel Arango García, August 2019 - Present. External committee member, PhD Thesis/Project: 'Effects of dispersal on the diversification of Emberizoidea (Aves, Passeriformes) in the New World'. Instituto de Ecología A.C., Xalapa, Mexico.

Master's Graduate Advisees:

Marco Aurelio Pinto Viveros, February 2017 – August 2019. Master Science Thesis: 'The amphibians as a model of biological control in agricultural areas of Santa Cruz, Bolivia', Master program Manejo de Recursos Naturales y Medio Ambiente, Universidad Autónoma Gabriel René Moreno, Santa Cruz de la Sierra, Bolivia.

Past Undergrad Advisees:

Katherine Mano Cuellar, March 2012 – July 2014. Distinction in All Subjects. *Magna Cum Laude*. Undergraduate Project. 'Effects of land use change on amphibian community composition in central Santa Cruz, Bolivia'. Carrera de Biología, Universidad Autónoma Gabriel René Moreno, Santa Cruz de la Sierra, Bolivia.

Marco Aurelio Pinto Viveros, March 2012 – December 2014. Distinction in All Subjects. *Magna Cum Laude*. Undergraduate Project: 'The herpetofauna of the Mutún region, Santa Cruz, Bolivia'. Carrera de Ciencias Ambientales, Universidad Autónoma Gabriel René Moreno, Santa Cruz de la Sierra, Bolivia.

Ronald Sosa Escalante, March 2013 – July 2016. Undergraduate Thesis: 'Estudio de la mortalidad de serpientes atropelladas en la carretera Antigua a Cochabamba, Provincia Florida, Santa Cruz, Bolivia, Carrera de Biología, Universidad Autónoma Gabriel René Moreno, Santa Cruz de la Sierra, Bolivia.

PRESENTATIONS

Invited talk - Plant community structure and detection

Jun, 2021

Institute of Biology, Leipzig University, Germany

Online talk

Invited talk - Plant diversity: community structure, composition and detection Jan, 2021
Ecology, Evolution and Behavior Seminar Series, University of Minnesota (Online) *St Paul, MN*

Poster - Integrating Biodiversity Observations With Airborne and Satellite Data To Predict Shifts in Assemblage Diversity and Composition Under Global Change Jan, 2021
NSF Macrosystems Biology and NEON Enabled Science PI Meeting *Online meeting*

Invited talk - Macroecology and macroevolution in the Neotropics Nov, 2020
Department of Geography, Federal University of Rio Grande do Norte *Online talk*

Talk - Introduction to graphical models Jan, 2020
Evolutionary Biology Network, Institute of Ecology *Xalapa, Mexico*

Talk - The role of ecology and evolution on the assembly and species co-occurrence at different spatial and temporal scales Sep, 2019
Grand Challenges in Biology Symposium, University of Minnesota *St Paul, MN*

Poster - Testing Darwin's naturalization conundrum based on taxonomic, phylogenetic and functional dimensions of vascular plant diversity Aug, 2019
Ecological Society of America Annual Meeting *Louisville, KY*

Invited talk - Wildlife management and indigenous people in Bolivian lowlands Apr, 2019
Mano a Mano International Partners *St Paul, MN*

Talk - Integrated Global Biodiversity Detection: Plant Spectra, Phylogenetics, and Enhanced Species Distribution Models (Co-author) Dec, 2018
AGU Annual Meeting *Washington DC*

Talk - Evolutionary macroecology Dec, 2018
Museo de Historia Natural Noel Kempff Mercado *Santa Cruz, Bolivia*

SYMPOSIA AND WORKSHOPS ORGANIZED

Round table on Diversity in Biodiversity Science (Organization committee) Oct, 2020
Biodiversity Research Coordination Network (RCN) *Online meeting*

X Bolivian Congress of Ornithology (Scientific committee) Oct, 2019
Asociación Boliviana de Ornitología and Universidad *Sucre, Bolivia*

IV Bolivian Congress of Ecology (Vice-president and Scientific committee) Jun, 2014
Asociación Boliviana de Ecología *Santa Cruz, Bolivia*

Climate Change and Water Use (Organization committee) Oct, 2010
ADAPCLIM conference *Asunción, Paraguay*

First Encounter on Knowledge and Management of the Pantanan and Chiquitania in the context of the Paraguay River Basin (Organization committee) Jun, 2010
Museo Noel Kempff Mercado/SINERGIA *Puerto Quijarro, Bolivia*

EXPERIENCE WITH SCIENTIFIC COLLECTIONS AND CURATION

Museo de Historia Natural Noel Kempff Mercado, Santa Cruz de la Sierra, Bolivia

1. **Assistant curator:** identification, preparation and maintenance of bird specimens collected in the field (2009 – 2014).
2. **Coordinator:** development of the Geospatial Centre for Biodiversity in Bolivia—for the vertebrate collection at the Museum in collaboration with a team of taxonomists. <http://www.museonoelkempff.org/cgb/>. (2011 – 2013).
3. **Field coordinator of biological inventories** in National Protected Areas of Bolivia, including Ríos Blanco y Negro Wildlife Reserve (2009), Otuquis National Park (2011, 2013).

SKILLS

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|-----------------------------|--|
| Languages | First language: Spanish (Fluent speaking, reading, and advanced writing) Proficient: English, Portuguese (speaking, reading, and writing) |
| Computer Programming | Advanced: R, MARKDOWN Intermediate: L ^A T _E X, GIT, MATLAB, ARCGIS, QGIS, ERDAS IMAGINE Familiar with: PYTHON, C++, BASH, ENVI |

SERVICE AND OUTREACH ACTIVITIES

SERVICE AS REVIEWER:

Publons: <https://publons.com/researcher/1588941/jesus-n-pinto-ledezma/>

I served as an expert reviewer for the 2020 Red List of birds (eastern South America). In addition, I have served as a reviewer in areas of macroecology, macroevolution, biogeography, theoretical ecology, community ecology, ecological modeling in journals, including:

Ecology(4), Frontiers in Ecology and the Environment, Ecological Monographs(2), Ecology Letters, Journal of Biogeography(9), Global Ecology and Biogeography(8), Diversity and Distributions(3), Ecology and Evolution(2), Journal of Field Ornithology, EMU (Australian Journal of Ornithology), El Hornero (Ornitología Neotropical), Kempffiana, Oecología Australis, Journal of Animal Ecology(2), Journal of Ecology, Journal of Plant Ecology, Annals of Botany, Biodiversity and Conservation(2), Forest Ecology and Management, Plos One, Perspectives in Ecology and Conservation(2), Journal of Zoological Systematics and Evolutionary Research, Nature Communications(2), Systematic Biology, Molecular Biology and Evolution, Biological Journal of the Linnean Society(2), The American Naturalist, Journal of Vegetation Science(2), New Phytologist(2), Remote Sensing in Ecology and Conservation, Methods in Ecology and Evolution.

NATIONAL AND INTERNATIONAL SERVICE ACTIVITIES:

1. **Official Bolivian member** for the Society of Wetlands Scientists, South American Chapter.
2. **Research Advisor in Ecology and Natural Resources:** National Academy of Sciences of Bolivia, Santa Cruz Chapter (*Scientia Crucensis*).

OUTREACH:

While working at the Noel Kempff Mercado Natural History Museum in Santa Cruz de la Sierra, I participated in outreach activities with visitors. I participated in guided visits from elementary and high school students and to the ornithological collection at the Museum, where we explored the role of scientific collections in science and society and how we learn about and document biodiversity.

As a postdoctoral fellow at the university of Minnesota, I have been participating in different science outreach programs. One of the programs involves bringing elementary school students (usually 5th and 6th graders) to the University of Minnesota. I lead part of the biodiversity sessions, in which the students can see and manipulate different plant species in the greenhouse and learn about the role of environmental conditions in species diversity, function and adaptations. I have also participated in the Market Science, which aims to connect people with science. In Market Science we created hand-one

science activities for children in Farmer’s markets. For example, my last experience in Market Science (September 2019), Laura Toro (PhD candidate from Colombia) and I created activities related to the impacts of wildfire and human induced fires in South America. Also, I gave a public talk at “Mano a Mano” International Partners (April 2019, <https://manoamano.org>) on wildlife management and indigenous people in Bolivian lowlands. In this talk, I highlighted the importance of working with local communities in order to preserve the natural capital. More recently, I have co-organized an online round table entitled **Diversifying Biodiversity Science** under the RCN: Cross-Scale Processes Impacting Biodiversity collaborative project, in which several panelist were invited to talk about their experiences regarding the inequalities in biodiversity science and how they are working to make our work more inclusive.

I am also a Spanish-language reviewer for **The American Naturalist**. The aim is helping The American Naturalist to expand the communications reach of the world-class science that nonnative English speakers produce.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

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| American Association for the Advancement of Science (AAAS) | 2020-present |
| American Geophysical Union (AGU) | 2019-present |
| Ecological Society of America (ESA) | 2014-present |
| National Academy of Sciences of Bolivia, Santa Cruz Chapter (<i>Scientia Crucensis</i>) | 2013-Present |
| Ornithological Society of Bolivia (ASBOR) | 2012-Present |
| Ecological Society of Argentina (ASAE) | 2006-Present |
| Ecological Society of Bolivia (ABECOL) | 2006-Present |
| Society of Wetlands Scientists, South American Chapter (SWS) | 2010-2014 |
| International Society for Salt Lake Research (ISSLR) | 2010-2014 |
| Community of Wildlife Management in Latin America (COMFAUNA) | 2009-Present |
| Society of Conservation Biology, Bolivian Chapter (SCB) | 2007-2012 |