JESÚS N. PINTO LEDEZMA

Department of Ecology, Evolution and Behavior • University of Minnesota • St Paul, MN 55108 jpintole@umn.edu • www.jesusnpl.github.io • @JesusNPL

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 University of Minnesota, Department of Ecology Evolution and Behavior	2020-present 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 Museo de Historia Natural Noel Kempff Mercado Ad Honorem	2009-present Santa Cruz, Bolivia
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, Argetina 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*, 11: 16448.
- 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 amboroensis (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). *Phylodryas 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 (*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:

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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	
	C . 0016

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)

Landscape Ecology (Guest Lecturer)

Master en Manejo de Recursos Naturales y Medio Ambiente

Spring 2012, 2013 Spring 2015, 2017

ADDITIONAL TEACHING:

University of Minnesota: Department of Fisheries, Wildlie 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 Online talk

Institute of Biology, Leipzig University, Germany

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 Underg 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 Evoutionary 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 Santa Cruz, Bolivia Museo de Historia Natural Noel Kempff Mercado 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

Languages First language: Spanish (Fluent speaking, reading, and advanced writing)

Proficient: English, Portuguese (speaking, reading, and writting)

Computer Programming Advanced: R, MARKDOWN

Intermediate: IATEX, 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 Aninal Ecology(2), Journal of Ecology, Journal of Plant Ecology, Annals of Botany, Biodiversity and Conservation(2), Forest Ecology and Management, Plos One, Prespectives 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

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 (Scientia Cruz Present	ensis) 2013-
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
${\bf Community\ of\ Wildlife\ Management\ in\ Latin\ America\ (COMFAUNA)}$	2009-Present
Society of Conservation Biology, Bolivian Chapter (SCB)	2007-2012