



| | | | |
|---------------------|---|-----------------------|---|
| Contact Information |  | Email | evilanova@wcs.org / ingvilanova@gmail.com |
| |  | Work address | Wildlife Conservation Society (WCS). 2300 Southern Boulevard Bronx, New York 10460. |
| |  | Website | https://emiliovilanova.com |
| |  | Research Gate | https://www.researchgate.net/profile/Emilio_Vilanova |
| |  | Google Scholar | https://scholar.google.es/citations?user=rLf4M2MAAAAJ&hl=es |
| |  | LinkedIn | https://www.linkedin.com/in/emiliovilanova/ |
| |  | Orcid | https://orcid.org/0000-0001-6289-5127 |

1. EDUCATION

- University of Washington, Seattle, USA. School of Environmental and Forest Sciences. Sustainable Forestry Lab. **PhD, 2013-2019**. Dissertation: *Patterns and processes in tropical forests: an analysis of forest structure and function from long-term permanent plots in Venezuela, Northern South America*.
- Universidad de Los Andes, Venezuela. Postgraduate Center of Forest and Environment Studies (CEFAP). **Magister Scientiae (MSc.) Forest Management 2004-2007**. Thesis title: *Impact of selective logging on carbon stocks in a humid forest of the Venezuelan Guayana*.
- Universidad de Los Andes, Venezuela. School of Forest Sciences and Environment. **Forestry Engineer 1997-2003. Cum Laude distinction**.

2. PROFESSIONAL EXPERIENCE

- **November 2021 – current**. Forest Carbon Analyst. Global Conservation Program, Intact Forest Initiative. Wildlife Conservation Society (WCS). <https://www.wcs.org/our-work/solutions/climate-change/intact-forests>
- **January 2020 – November 2021**. Postdoctoral scholar, Department of Environmental Science, Policy, and Management (ESPM), University of California, Berkeley. Project: [California Tree Mortality Data Collection Network](#).
- **August-December 2018**: Lecturer in Applied Forest Ecology (Silviculture) for the Fall-2018 semester at Department of Environmental Science, Policy, and Management, University of California, Berkeley. <https://classes.berkeley.edu/content/2018-fall-espm-185-001-lec-001>
- **September 2014 – December 2019**: Research Assistant at the School of Environmental and Forest Sciences (SEFS), University of Washington, Seattle, USA. See supervisor's web page: <http://faculty.washington.edu/ettl/>
- **2010 – 2013**: Assistant professor in Sustainable Forest Management. Institute for Forest Research and Development (INDEFOR), Universidad de Los Andes, Venezuela. <http://www.ula.ve/ciencias-forestales-ambientales/indefor/personal/>
- **October 2011-March 2012**: Forest consultant for the Food and Agriculture Organization of the United Nations (FAO) during the project: *“The silviculture of Amazon Forests: state of the art and recommendations for policy and the practice: The case of Venezuela”*.

- **2008 – 2010:** Instructor in Sustainable Forest Management. Institute for Forest Research and Development (INDEFOR), Universidad de Los Andes, Venezuela.
- **2007 – 2008:** Field researcher for the National Institute of Agrarian Research (INIA) for the project entitled “*Sustainable agroforestry models for Venezuelan Andes*”.
- **2006 – 2007:** Teaching assistant in Sustainable Forest Management. Institute for Forest Research and Development (INDEFOR), Universidad de Los Andes, Venezuela.
- **2005 – 2006:** Field researcher for the Institute for Forest Research and Development (INDEFOR) for the project entitled “*Productive and Innovative Network of wood furniture producers in Zamora municipality, Aragua, Venezuela*”. Universidad de Los Andes, Venezuela.
- **2003 – 2005:** Technical support for the Venezuelan Long-Term Ecological Research Network (LTER) EcoRed-Venezuela.

3. AWARDS / SCHOLARSHIPS / FELLOWSHIPS

- 2016: 4000 US\$ award from the [Andean Forests and Climate Change Initiative](#) under the Small Scholarship Funds.
- 2013-2018: During the PhD close to 3,500\$ were awarded in the form of travel and research support grants from different departments at the University of Washington.
- 2013 (~ 30,000\$): Byron and Alice Lockwood Endowed Fellowship / Lawrence Ottinger Forest Products Fellowship / Morten J. Lauridsen, Jr. Endowed Scholarship to support the first year of my graduate studies at the University of Washington.
- March 2013: “Dr. Rafael Chuecos Poggioli” Award for young professors, Universidad de Los Andes, Venezuela.
- 2010-2016: Program for the Endorsement of Research and Innovation (PEII). National Office of Science, Technology and Innovation (ONCTI), Venezuela.
- 2010 (~2500\$): Scientific Assistant Program (SAP) support grant for young researchers from the International Union of Forestry Research Organizations (IUFRO) (<http://www.iufro.org/>) to participate in the IUFRO 2010 World Congress in Seoul, South Korea.

4. SKILLS

- + 15-year experience in forestry and natural resource management, with emphasis on forest ecology, inventory, forest and biodiversity monitoring and data analysis.
- Teaching and mentoring at undergraduate and graduate levels.
- Proficiency in statistical data analysis with R, and high-level management of ggplot2 and other additional R packages.
- Management of the [FieldMap](#) software and hardware for forest inventory. Link to a recent scientific publication where this technology was used, and I was recognized for training <https://esajournals.onlinelibrary.wiley.com/doi/10.1002/ecs2.3236>
- Basic to mid-level management of the Forest Vegetation Simulator software (FVS).
- Basic understanding of GIS with exposure to ArcGis, QGIS and AvenzaMaps.
- Exposure to web page design, with capacity for social media and outreach management.
- Capacity for project management, with a detail-oriented mindset and critical thinking.
- Leadership skills for managing field crews for forest inventory.
- Organizational skills for scientific meetings.

5. PEER REVIEWED PUBLICATIONS

Google Scholar profile: <https://scholar.google.es/citations?user=JM34isoAAAAJ&hl=es>

Total citations (August 2021): 4551, h-index: 21

5.1 Book chapters

2020

- **Silvicultural practices in Venezuelan natural forests: An historical perspective and prospects of sustainable forest management.** Emilio Vilanova. Book: *Silviculture*, IntechOpen. <https://www.intechopen.com/online-first/silvicultural-practices-in-venezuelan-natural-forests-an-historical-perspective-and-prospects-of-sus> DOI: 10.5772/intechopen.93279

5.2 Articles in Scientific Journals

In preparation...

- **A multidecadal analysis of forest structure and stem turnover in Venezuelan tropical forests.** Emilio Vilanova et al.
- **Montane to lowland differences in biomass, turnover, and productivity are closely associated with tree species functional traits in tropical forests of northern South America.** Emilio Vilanova, Geertje van der Heijden, Luis E. Gámez, Néstor Gutiérrez B., Robert Swan, Hirma Ramírez-Angulo, Armando Torres-Lezama, Oliver L. Phillips, Gregory J. Ettl.
- **Characterizing ground and surface fuels across Sierra Nevada forests shortly after the 2012-2016 drought.** Emilio Vilanova et al.

2021

- **Amazon tree dominance across forest strata.** Drapper et al. (+ 130 authors including **Emilio Vilanova**). *Nature Ecology and Evolution* <https://www.nature.com/articles/s41559-021-01418-y>
- **A low-cost and robust Landsat-based Approach to study Forest Degradation and Carbon Emissions from Selective Logging in the Venezuelan Amazon.** Carlos Pacheco-Angulo, Wenseslao Plata-Rocha, Julio Serrano, **Emilio Vilanova**, Sergio Alberto Monjardín-Armenta, Alvaro Gonzalez, Cristopher Camargo. *Remote Sens.* 2021, 13(8), 1435; <https://doi.org/10.3390/rs13081435>

2020

- **Mode of death and mortality risk factors in Amazon trees.** A Esquivel Muelbert, O Phillips, R Brienens, S Fauset, MJ Sullivan, T Baker, KJ Chao, TR Feldpausch, E Gloor, N Higuchi, J Houwing-Duistermaat, J Lloyd, H Liu, Y Malhi, B Marimon, BH Marimon Junior, A Monteagudo-Mendoza, L Poorter, M Silveira, **E Vilanova Torre** (+ 96 coauthors). *Nature Communications* <https://www.nature.com/articles/s41467-020-18996-3>
- **The global abundance of tree palms.** Muscarella et al. (+100 coauthors including **Emilio Vilanova**). *Global Ecology and Biogeography* <https://onlinelibrary.wiley.com/doi/10.1111/geb.13123>
- **Long-term climate sensitivity of Earth's tropical forests.** Sullivan et al. (+ 225 coauthors including **Emilio Vilanova**). *Science*, 368 (6493): 869-874. <https://science.sciencemag.org/content/368/6493/869>
- **Competition influences tree growth, but not mortality, across environmental gradients in**

Amazonia and tropical Africa. Danaë Rozendaal, Oliver L. Phillips, Simon L. Lewis, Kofi Affum-Baffoe, Esteban Alvarez Dávila, Ana Andrade, Luiz E.O.C. Aragão, Alejandro Araujo-Murakami, Timothy R. Baker, Olaf Bánki, Roel J.W. Brienen, José Luis C. Camargo, James A. Comiskey, Marie Noel K. Djuikouo, Sophie Fauset, Ted R. Feldpausch, Timothy J. Killeen, William F. Laurance, Susan G.W. Laurance, Thomas Lovejoy, Yadvinder Malhi, Beatriz S. Marimon, Ben-Hur Marimon Junior, Andrew R. Marshall, David A. Neill, Percy Núñez Vargas, Nigel C.A. Pitman, Lourens Poorter, Jan Reitsma, Marcos Silveira, Bonaventure Sonké, Terry Sunderland, Hermann Taedoumg, Hans ter Steege, John W. Terborgh, Ricardo K. Umetsu, Geertje M.F. van der Heijden, **Emilio Vilanova**, Vincent Vos, Lee J.T. White, Simon Willcock, Lise Zemagho, Mark C. Vanderwel. *Ecology*
<https://esajournals.onlinelibrary.wiley.com/doi/abs/10.1002/ecy.3052>

2019

- **Estimating aboveground net biomass change for tropical and subtropical forests: refinement of IPCC default rates using forest plot data.** Daniela Requena Suarez, Danaë M.A. Rozendaal, Veronique De Sy, Oliver L. Phillips, Esteban Alvarez-Dávila, Kristina Anderson-Teixeira, Alejandro Araujo-Murakami, Luzmila Arroyo, Timothy R. Baker, Frans Bongers, Roel J.W. Brienen, Sarah Carter, Susan C. Cook-Patton, Ted R. Feldpausch, Bronson W. Griscom, Nancy Harris, Bruno Héroult, Eurídice N. Honorio, Coronado Sara, M. Leavitt, Simon L. Lewis, Beatriz S. Marimon, Abel Monteagudo Mendoza, Justin Kassi N'dja, Anny Estelle N'Guessan, Lourens Poorter, Lan Qie, Ervan Rutishauser, Plinio Sist, Bonaventure Sonké, Martin J.P. Sullivan, **Emilio Vilanova**, Maria M.H. Wang, Christopher Martius, Martin Herold. *Global Change Biology* 25 (11):3609-3624 <https://onlinelibrary.wiley.com/doi/10.1111/gcb.14767>

2018

- **Compositional response of Amazon forests to climate change.** Adriane Esquivel-Muelbert, Timothy R. Baker, Kyle G. Dexter, Simon L. Lewis, Roel J. W. Brienen, Ted R. Feldpausch, Jon Lloyd, Abel Monteagudo-Mendoza, Luzmila Arroyo, Esteban Álvarez-Dávila, Niro Higuchi, Beatriz S. Marimon, Ben-Hur Marimon-Junior, Marcos Silveira, **Emilio Vilanova** (+90 coauthors) *Global Change Biology* 25 (1): 39-56.
<https://onlinelibrary.wiley.com/doi/full/10.1111/gcb.14413>
- **Environmental drivers of forest structure and stem turnover across Venezuelan tropical forests.** **Emilio Vilanova**, Hirma Ramírez-Angulo, Armando Torres-Lezama, Gerardo Aymard, Luis Gámez, Cristabel Durán, Lionel Hernández, Rafael Herrera, Geertje van der Heijden, Oliver L. Phillips, Gregory J. Ettl. *PLOS ONE*
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0198489>
- **Field methods for sampling tree height for tropical forest biomass estimation.** Sullivan et al. (+49 authors including **Emilio Vilanova**). *Methods in Ecology and Evolution* 9(5): 1179-1189
<http://onlinelibrary.wiley.com/doi/10.1111/2041-210X.12962/full>

2017

- **Carbon Emissions from Deforestation and Degradation in a Forest Reserve in Venezuela between 1990 and 2015.** Carlos Pacheco-Angulo, **Emilio Vilanova**, Inmaculada Aguado, Sergio Monjardin, Susana Martinez. *Forests* 2017, 8(8), 291; <http://www.mdpi.com/1999-4907/8/8/291/htm>
- **Does soil pyrogenic carbon determine plant functional traits in Amazon Basin forests?.** Klécia G. Massi, Michael Bird, Beatriz S. Marimon, Ben Hur Marimon Jr., Denis S. Nogueira, Edmar A. Oliveira, Oliver L. Phillips, Carlos A. Quesada, Ana S. Andrade, Roel J. W. Brienen, José L. C. Camargo, Jerome Chave, Eurídice N. Honorio Coronado, Leandro V. Ferreira, Niro Higuchi, Susan G. Laurance, William F. Laurance, Thomas Lovejoy, Yadvinder Malhi, Rodolfo V. Martínez, Abel Monteagudo, David Neill, Adriana Prieto, Hirma Ramírez-Angulo, Hans ter

Steege, **Emilio Vilanova**, Ted R. Feldpausch. *Plant Ecology* pp: 1-16.
<https://link.springer.com/article/10.1007%2Fs11258-017-0751-9>

- **Persistent effects of pre-Columbian plant domestication on Amazonian forest composition.** Levis et al (+ 150 authors including **Emilio Vilanova**), *Science* Vol 355, Issue 6328, March 2017. <https://science.sciencemag.org/content/355/6328/925.abstract>. Awarded with the 2020 W.S. Cooper Award from the Ecological Society of America: <https://www.esa.org/esablog/ecology-in-the-news/news-events/esa-announces-2020-award-recipients-and-2019-student-awards/>

2016

- **Evolutionary heritage influences Amazon tree ecology.** Coehlo et al. (+ 75 authors including **Emilio Vilanova**). *Proceedings of the Royal Society B* 283 (1844) <http://rspb.royalsocietypublishing.org/content/283/1844/20161587>
- **Amazon forest response to repeated droughts.** Feldspauch et al. (+ 55 authors, including **Emilio Vilanova**). *Global Biogeochemical cycles* 30 (7): 964–982 <http://onlinelibrary.wiley.com/doi/10.1002/2015GB005133/abstract>
- **Variation in stem mortality rates determines patterns of aboveground biomass in Amazonian forests: implications for dynamic global vegetation models.** Johnson et al. (+ 50 authors, including **Emilio Vilanova**). *Global Change* 22 (12): 3996–4013 DOI 10.1111/gcb.13315 <http://onlinelibrary.wiley.com/doi/10.1111/gcb.13315/full>
- **Seasonal drought limits tree species across the Neotropics.** Muelbert et al. (+ 75 authors including **Emilio Vilanova**). *Ecography* 40 (5): 618-629 DOI: 10.1111/ecog.01904 <http://onlinelibrary.wiley.com/doi/10.1111/ecog.01904/abstract>
- **Estimating the global conservation status of more than 15,000 Amazonian tree species.** ter Steege H., et al. 2015 (+ 150 authors including **Emilio Vilanova**). *Science Advances* 20 Nov 2015: Vol. 1, no. 10, e1500936. DOI: 10.1126/sciadv.1500936. <http://advances.sciencemag.org/content/1/10/e1500936>

2015

- **Phylogenetic diversity of Amazonian tree communities.** Honorio et al. (+ 45 authors including **Emilio Vilanova**). *Diversity and Distributions* 21 (11): 1295–1307. <http://onlinelibrary.wiley.com/doi/10.1111/ddi.12357/abstract>
- **Hyperdominance in Amazonian forest carbon cycling.** Fauset et al. (+ 100 authors including **Emilio Vilanova**). *Nature Communications* 6, Article number: 6857. <http://www.nature.com/ncomms/2015/150428/ncomms7857/abs/ncomms7857.html>
- **Long-term decline of the Amazon carbon sink.** Brienen, R., OL Phillips, TR Feldpausch, E Gloor, TR Baker, J Lloyd, G Lopez-Gonzalez et al. (+ 80 authors including **Emilio Vilanova**). *Nature* 519 (7543): 344-348. <http://www.nature.com/nature/journal/v519/n7543/full/nature14283.html>

2014

- **Analyzing Amazonian forest productivity using a new individual and trait-based model (TFS v.1).** N. M. Fyllas, E. Gloor, L. M. Mercado, S. Sitch, C. A. Quesada, T. F. Domingues, D. R. Galbraith, A. Torre-Lezama, **E. Vilanova**, H. Ramírez-Angulo, N. Higuchi, D. A. Neill, M. Silveira, L. Ferreira, G. A. Aymard C, Y. Malhi, O. L. Phillips, J. Lloyd. *Geosci. Model Dev. Discuss.*, 7, 1413-1452, 2014. www.geosci-model-dev-discuss.net/7/1413/2014/. doi:10.5194/gmdd-7-1413-2014.

- **Markedly divergent estimates of Amazon forest carbon density from ground plots and satellites.** Mitchard, E. et al (+ 80 authors including **Emilio Vilanova**). *Global Ecology and Biogeography*, (Global Ecol. Biogeogr.) 23 (8): 935–946. <http://onlinelibrary.wiley.com/doi/10.1111/geb.12168/abstract>
- **Fast demographic traits promote high diversification rates of Amazonian trees.** Tim Baker et al. (+58 authors including **Emilio Vilanova**). *Ecology Letters* (2014) 17 (5): 527–536 doi: 10.1111/ele.12252. <http://onlinelibrary.wiley.com/doi/10.1111/ele.12252/abstract>

2013

- **Hyperdominance in the Amazonian Tree Flora.** Hans ter Steege et al. (+119 authors including **Emilio Vilanova**). *Science* 342 (2013). <http://www.sciencemag.org/content/342/6156/1243092>
- **Assessing the extent of “conflict of use” in multipurpose tropical forest trees: A regional view.** (2013). Cristina Herrero-Jáuregui, Manuel R. Guariguata, Dairon Cárdenas, **Emilio Vilanova**, Marco Robles, Juan Carlos Licona, Walter Nalvarte. *Journal of Environmental Management* 130: 40-47. <http://www.sciencedirect.com/science/article/pii/S0301479713005677>
- **Soil physical conditions limit palm and tree basal area in Amazonian forests.** Thaise Emilio, Carlos A. Quesada, Flávia R.C. Costa, William E. Magnusson, Juliana Schiatti, Ted R. Feldpausch, Roel J.W. Brienen, Timothy R. Baker, Jerome Chave, Estebán Álvarez, Alejandro Araújo, Olaf Bánki, Carolina V. Castilho, Euridice N. Honorio C., Timothy J. Killeen, Yadvinder Malhi, Erick M. Oblitas Mendoza, Abel Monteagudo, David Neill, Germaine Alexander Parada, Antonio Peña-Cruz, Hirma Ramirez-Angulo, Michael Schwarz, Marcos Silveira, Hans ter Steege, John W. Terborgh, Raquel Thomas, Armando Torres-Lezama, **Emilio Vilanova**, Oliver L. Phillips. *Plant Ecology and Diversity* (2013) 7 (1-2). DOI:10.1080/17550874.2013.772257. <http://www.tandfonline.com/doi/abs/10.1080/17550874.2013.772257>
- **Large trees drive forest aboveground biomass variation in moist lowland forests across the tropics.** J. W. Ferry Slik, Gary Paoli, Krista McGuire, Leda Amaral, Jorcely Barroso, Meredith Bastian, Lilian Blanc, Frans Bongers, Patrick Boundja, Connie Clark, Murray Collins, Gilles Dauby, Yi Ding, Jean-Louis Doucet, Eduardo Eler, Leandro Ferreira, Olle Forshed, Gabriella Fredriksson, Jean-Francois Gillet, David Harris, Miguel Leal, Yves Laumonier, Yadvinder Malhi, Asyraf Mansor, Emanuel Martin, Kazuki Miyamoto, Alejandro Araujo-Murakam, Hidetoshi Nagamasu, Reuben Nilus, Eddy Nurtjahya, Atila Oliveira, Onrizal Onrizal, Alexander Parada-Gutierrez, Andrea Permana, Lourens Poorter, John Poulsen, Hirma Ramirez-Angulo, Jan Reitsma, Francesco Rovero, Andes Rozak, Douglas Sheil, Javier Silva-Espejo, Marcos Silveira, Wilson Spironelo, Hans ter Steege, Tariq Stevart, Gilberto Enrique Navarro-Aguilar, Terry Sunderland, Eizi Suzuki, Jianwei Tang, Ida Theilade, Geertje van der Heijden, Johan van Valkenburg, Tran Van Do, **Emilio Vilanova**, Vincent Vos, Serge Wich, Hannsjoerg Wöll, Tsuyoshi Yoneda, Runguo Zang, Ming-Gang Zhang, Nicole Zweifel. *Global Ecology and Biogeography* 22 (12): 1261–1271 <http://onlinelibrary.wiley.com/doi/10.1111/geb.12092/abstract>

2012

- **Tree height integrated into global tropical biomass estimates.** T.R. Feldpausch, J. Lloyd1, R. Brienen, S.L. Lewis, E. Gloor, A. Monteagudo Mendoza, G. Lopez-Gonzalez, L. Banin, K. Abu Salim, K. Affum-Baffoe, M. Alexiades, S. Almeida, I. Amaral, A. Andrade, L.E.O.C. Aragão, A. Araujo Murakami, E.J.M.M. Arets, L. Arroyo, G.A. Aymard C., T.R. Baker, O.S. Bánki, N.J. Berry, N. Cardozo, J. Chave, J.A. Comiskey, E.A. Dávila, A. de Oliveira, A. Di Fiore, G. Djagbletey, T.F. Domingues, T.L. Erwin, P.M. Fearnside, M.B. França, M.A. Freitas, N. Higuchi, E. Honorio C.1, M.O. Hunter, Y. Iida, E. Jiménez, A.R. Kassim, H. Keeling, M. Keller, T.J. Killeen, W.F. Laurance, E. Lenza, J.C. Lovett, Y. Malhi, B.S. Marimon, B.H. Marimon-Junior, A.R. Marshall, C. Mendoza, D.J. Metcalfe, E.T.A. Mitchard, D.A. Neill, B.W. Nelson, R. Nilus, E.M. Nogueira, M. Palace, A. Parada, K.S.-H. Peh, A. Pena Cruz, M.C. Peñuela, N.C.A. Pitman,

A. Prieto, C.A. Quesada, F. Ramírez, H. Ramírez-Angulo, J.M. Reitsma, A. Rudas, G. Saiz, R. Salomão, M. Schwarz, N. Silva, J.E. Silva-Espejo, M. Silveira, B. Sonké, J. Stropp, H.E. Taedoumg, S. Tan, H. ter Steege, J. Terborgh, M. Torello-Raventos, G.M.F. van der Heijden, R. Vásquez, **E. Vilanova**, V. Vos, L. White, S. Wilcock, H. Woell, O.L. Phillips. *Biogeosciences*, 9, 3381–3403, 2012. www.biogeosciences.net/9/3381/2012/ doi:10.5194/bg-9-3381-2012.

- **La silvicultura en bosques naturales de Venezuela: Lecciones aprendidas y recomendaciones para la política y la práctica.** **Emilio Vilanova**, César Sabogal. *Revista Forestal Venezolana* 56(1):97-103 – 2012. http://www.saber.ula.ve/bitstream/123456789/36854/1/nota_tecnica2.pdf
- **Socioeconomic and environmental basis for development of Small-Scale Forestry in a highly degraded watershed of the Venezuelan Andes.** Armando Torres-Lezama, **Emilio Vilanova**, Hirma Ramírez-Angulo and Giancarlo Alciaturi. *Small Scale Forestry* Volume 11, Number 3 (2012), 321-337 DOI: 10.1007/s11842-011-9186-7 <http://www.springerlink.com/content/27217m7588t783n4/>
- **Compliance with sustainable forest management guidelines in three timber concessions in the Venezuelan Guayana: Analysis and implications.** **Emilio Vilanova**, Hirma Ramírez-Angulo, Gustavo Ramírez, Armando Torres-Lezama. *Forest Policy and Economics* Volume 17, April 2012, Pages 3–12. doi:10.1016/j.forpol.2011.11.001 <http://www.sciencedirect.com/science/article/pii/S1389934111001833>

2011

- **Adaptación de los bosques tropicales al cambio climático: una oportunidad para la investigación interdisciplinaria** (*Adaptation of tropical forests to climate change: an opportunity for interdisciplinary research*) **Emilio Vilanova**. *Revista Forestal Venezolana*. 55(1):93-101. 2011. <http://www.saber.ula.ve/bitstream/123456789/33490/1/ensayo1.pdf>
- **Una propuesta para el desarrollo forestal a pequeña escala en el sur del estado Aragua, Venezuela** (*Proposal for a small-scale forestry development in southern Aragua state, Venezuela*) Armando Torres Lezama, **Emilio Vilanova**, Hirma Ramírez Ángulo, Pablo Ninín, Balbina Mora, Dimas Hernández. *Revista Forestal Venezolana*. 55(1): 47-60. 2011. <http://www.saber.ula.ve/bitstream/123456789/33487/1/articulo6.pdf>

2010

- **El carbono en la biomasa aérea como indicador del impacto del aprovechamiento de maderas en la Reserva Forestal Imataca, Venezuela.** (*Carbon storage in the aboveground biomass as indicator of logging impact in the Imataca Forest Reserve, Venezuela*). **Vilanova, Emilio**; Ramírez-Angulo, Hirma; Torres-Lezama, Armando. *Interciencia* SEP 2010, VOL. 35 N° 9: 659-665. http://www.interciencia.org/v35_09/index.html
- **Planning and Policy Issues in Small-scale Forestry Development in Southern Aragua State, Venezuela.** Torres Lezama, A; **Vilanova, E**; Ramírez-Angulo, H. (2010) *Small-scale Forestry* Volume 9, Number 3, 281-295, DOI: 10.1007/s11842-010-9116-0 <http://www.springerlink.com/content/t4hh32v2705115jp/>
- **Drought-mortality relationships for tropical forests.** Oliver L. Phillips, Geertje van der Heijden, Simon L. Lewis, Gabriela López-González, Luiz E. O. C. Aragão, Jon J. Lloyd, Yadvinder Malhi, Abel Monteagudo, Samuel Almeida, Esteban Alvarez Dávila, Iêda Amaral, Sandy Andelman, Ana Andrade, Luzmila Arroyo, Gerardo Aymard, Tim R. Baker, **Emilio Vilanova** (2010) *New Phytologist* 187: 631–646 - <http://onlinelibrary.wiley.com/doi/10.1111/j.1469-8137.2010.03359.x/abstract>

2009

- **Guiding Principles for Small-Scale Forestry in a Watershed of the Venezuelan Andes: Constraints and Opportunities.** Torres Lezama, A; **Vilanova, Emilio**; Ramírez-Angulo, H. *Small-scale Forestry* 8(1): 77-93. (2009).
<http://www.springerlink.com/content/fuxn668140630031/>

2008

- **Propuesta para la creación de un Bosque Modelo en la subcuenca del río Mucujún, Venezuela, utilizando el enfoque de paisajes** (*Proposal for the establishment of a Model Forest in the Mucujún sub watershed using the landscape approach*). **Emilio Vilanova**; Armando Torres Lezama; Hirma Ramírez. *Revista Forestal Venezolana*, Año XLI, Volumen 52(2) JULIO-DICIEMBRE (2008): pp 159-171.
<http://www.saber.ula.ve/bitstream/123456789/30282/1/articulo3.pdf>
- **Forest resources in Venezuela: current status and prospects for sustainable management.** Armando Torres-Lezama, Hirma Ramírez-Angulo, **Emilio Vilanova** y Rodrigo Barros. *Bois et Forêt des Tropiques*, (2008), No. 295 (1) pp 21-33. <http://bft.e-revues.com/resnum.jsp>
- **Models of Natural and Human Dynamics in Forest Landscapes: cross-site and cross-cultural synthesis.** Miguel F. Acevedo, J. Baird Callicott, Michael Monticino, Donald Lyons, Jenny Palomino, Judith Rosales, Luz Delgado, Magdiel Ablan, Jacinto Dávila, Giorgio Tonella, Hirma Ramírez & **Emilio Vilanova** *Geoforum* 39 (2008) 846-866.
<http://www.sciencedirect.com/science/article/pii/S0016718506001552>

6. JOURNAL REVIEWING

Up to August 2021, I have been a reviewer and editor of scientific articles in the following journals (Number of manuscripts revised in parenthesis): **Publons profile:**
<https://publons.com/researcher/3452510/emilio-vilanova/>

- Revista Madera y Bosques, México (1). <http://www1.inecol.edu.mx/myb/MB2.htm>
- Revista Forestal Venezolana (RFV), Venezuela (3) <http://www.saber.ula.ve/revistaforestal/>
- Revista Bosque, Chile (1) <http://www.revistabosque.cl/>
- Forest Ecology and Management (1)
<http://www.sciencedirect.com/science/journal/03781127?sdc=1>
- Public Library of Sciences (PLOS ONE) (2) <http://journals.plos.org/plosone/>
- Biotropica (2) <http://biotropica.org/>
- Forests (2): <https://www.mdpi.com/journal/forests>
- Frontiers in Forests and Global Change (3) where I also serve as a review editor
<https://loop.frontiersin.org/people/946965/overview>
- Ecology and Evolution (1) <https://onlinelibrary.wiley.com/journal/20457758>
- Forest Ecosystems (1) <https://forestecosyst.springeropen.com/>
- Land (1) <https://www.mdpi.com/journal/land> where I also serve as a review editor
https://www.mdpi.com/journal/land/submission_reviewers and currently serving as a Guest Editor for a Special Issue on “Advances in Sustainable Forest Management”
https://www.mdpi.com/journal/land/special_issues/advances_sfm
- Neotropical Biodiversity (2) <https://www.tandfonline.com/toc/tneo20/current>
- Land Use Policy (1) <https://www.sciencedirect.com/journal/land-use-policy>
- Functional Ecology (1) <https://besjournals.onlinelibrary.wiley.com/journal/13652435>
- Plant Ecology and Diversity: Associated Editor on ‘Biotic Interactions’
<https://www.tandfonline.com/action/journalInformation?show=editorialBoard&journalCode=tped20>

7. NON-PEER REVIEWED PUBLICATIONS, BLOG POSTS, PUBLIC LECTURES

2020

- **Collapse of Venezuelan science threatens the world's most sustained monitoring of tropical forests.** Nature Ecology and Evolution community blog: <https://natureecoevocommunity.nature.com/users/385533-emilio-vilanova/posts/65506-collapse-of-venezuelan-science-threatens-the-world-s-most-sustained-monitoring-of-tropical-forests>

2018

- **Come together: Networking and collaboration in tropical forest scientific research.** University of Washington Engage Series Blog: <https://www.engage-science.space/blog/2019/3/11/come-together-networking-and-collaboration-in-tropical-forest-scientific-research-archive>
- **Are tropical forests changing? Stories from the Amazon by Emilio Vilanova.** University of Washington Engage Series. <https://www.youtube.com/watch?v=rugAJO1cZdU>

8. TEACHING-MENTORING

Courses Taught (Universidad de Los Andes -Venezuela)

- Sustainable Forest Management (undergraduate)
- Tropical Silviculture (undergraduate)
- Tropical Forest Dynamics (Master)

Courses Taught (University of California – Berkeley)

- ESPM-185 Applied Forest Ecology (Silviculture) – Fall Semester, 2018. <https://classes.berkeley.edu/content/2018-fall-espm-185-001-lec-001>

Guest Lectures

- A guest lecture on wildfires and forest ecology in California for the 218X class “Shaping the Future of the Bay Area” class, Stanford University, November 2020.
- [Guest lecture on Tropical Silviculture for the class ESPM-185](#) “Applied Forest Ecology (Silviculture)” – UC Berkeley, Fall Semesters, 2019, 2020, 2021.
- Guest lecture on Tropical Forest ecology and management for the class ESRM-429 Environmental and Resource Management Seminar – University of Washington, Fall quarter 2017.

Field crew leader (University of Washington)

- Between 2013 and 2017, every summer quarter I worked as a crew leader at the [Center for Sustainable Forestry at Pack Forest](#) where I led a group of 4-5 undergraduate students for a period of 8 weeks as part of their program at the School of Environmental and Forest Sciences (SEFS). This includes teaching, mentoring, and guiding through capstone projects.

Mentoring I: Undergraduate – School of Forestry - Universidad de Los Andes, Venezuela.

- Eduardo Belandria /Néstor López. Title: Balance preliminar de carbono en áreas de construcción y pasivos ambientales en dos campos petroleros de PDVSA-GAS Anaco, Anzoátegui, Venezuela (*Preliminary carbon balance in construction and environmental liabilities in two oil drilling Camps*), May 2009.

- Adam Alvarez. Title: Estimación del carbono almacenado en dos ecosistemas boscosos de Venezuela: implicaciones para su conservación y recomendaciones de políticas (*Carbon estimation in two forested areas of Venezuela: conservation implications and policy recommendations*), Nov 2009.
- Ricardo Calderón, Mayra Pabón. Title: Estimación de la biomasa de residuos del aprovechamiento en plantaciones de Pino Caribe de 27 años de Edad en la empresa MAT.PROFORCA (*Estimation of Logging residues biomass in a 27 year Caribbean Pine plantation*), Jan. 2012.

Mentoring II: Graduate (Master level) – Center of Forest and environmental studies, Universidad de Los Andes, Venezuela.

- Victoriano Vargas. Title: Análisis de fragmentación del bosque de roble (*Quercus humboldtii*), empleando sensores remotos y SIG, en el sector peña lisa, en los municipios de Málaga, San Andrés y Molagavita, departamento de Santander, Colombia (*Fragmentation analysis of Oak forests (Quercus humboldtii) using remote sensing techniques in Peña Lisa sector, Málaga, Santander, Colombia*). July 2014.

9. CONTRIBUTIONS TO DIVERSITY, EQUITY AND INCLUSION (DEI)

- Participation as a mentor in the 2020'2021 “Científico Latino” Program: <https://www.cientificolatino.com/>
- Participation as a mentor in the 2020 Forestry and Natural Resources Career Mentorship Program, organized by UC Berkeley.

10. CONFERENCES AND WORKSHOPS

10.1 INTERNATIONAL WORKSHOPS:

- **Presentation and organization of two symposiums for the 2021 Virtual conference of the Association of Tropical Biology and Conservation (ATBC).** July 21-23, 2021. Meeting website: <https://www.atbc2021.org/>
- **Presentation and organization of the Third Annual Workshop of the California Tree Mortality Data Collection Network.** March 10-11, 2021. [Workshop Agenda](#).
- **Workshop: Temperate rainforests as carbon sinks and sources: the role of disturbance and land change.** 4th annual Coastal Rainforest Margins Research Network workshop, Forks, WA. January 13-16th, 2020.
- **Second Meeting of the Living Earth Collaborative Working Group: *A synthesis of patterns and mechanisms of diversity and forest change in the Andes: A global biodiversity hotspot.*** Washington State University at St. Louis, Missouri Botanical Garden. St. Louis, MO, Sept. 3-5, 2019.
- **Phylogenetic and Functional Trait Analyses for Ecology in R Workshop,** February 1-4, 2017 at the National Socio-Environmental Synthesis Center (SESYNC), Annapolis, Maryland, USA.
- **2016 Labex CEBA Thematic School: “Functional Ecology of Tropical rainforests in the context of Climate Changes: From real observations to simulations”.** Organized by UMR-Ecofog (Kourou) and UMREEF (Nancy), Kourou, French Guiana, South America, March 21-25, 2016.

- **Workshop Red Amazónica de Inventarios Forestales (RAINFOR) Amazon Forest Inventory Network. Ciência ambiental na Amazônia: RAINFOR como catalisador da integração de projetos em rede, da análise orientada de dados e da produção de artigos, Rio Branco, Brasil, June 2011.**
- **IUFRO-SPDC PRE-CONGRESS TRAINING WORKSHOP: Forests and Climate Change.** 16-20 August. Namyangju City – Republic of Korea. XXIII IUFRO World Congress. Awarded with an IUFRO SPDC Grant.
- **Curso Intensivo Internacional sobre Manejo Diversificado de Bosques Tropicales Naturales (*Intensive course of Diversified Management in Tropical Forests*).** Centro Agronómico Tropical de Investigación y Enseñanza (CATIE). Sept. 4th – Oct. 2nd 04 2005. Turrialba, Costa Rica.

10.2 INTERNATIONAL CONFERENCES / SCIENTIFIC MEETINGS:

- **Emilio Vilanova**, Lauren E. Cox, John J. Battles and Jodi N. Axelson, Leif A. Mortenson, Beverly M. Bualon, Jamie M. Lydersen, Christopher. J. Fettig. **Characterizing ground and surface fuels shortly after the 2012-2016 drought across Sierra Nevada mixed-conifer forests.** Ecological Society of America Annual meeting ESA 2021. <https://edmc.dco/mXvjLP>
- **Emilio Vilanova**, Geertje van der Heijden, Luis Gámez, Néstor Gutiérrez, Robert Swan, Hirma Ramírez-Angulo, Armando Torres-Lezama, Oliver L. Phillips, Gregory J. Ettl. Poster presentation: **Montane to lowland differences in biomass, turnover, and productivity are closely associated with tree species functional traits in tropical forests of northern South America.** AGU Fall Meeting December 1-17, 2020, Online.
- Homicz, C.S., L.A. Mortenson, B.M. Bulaon, **E. Vilanova**, and C.J. Fettig. **Change in fuel loads following severe drought and bark beetle outbreaks in the central and southern Sierra Nevada.** 2020 Annual Meeting of the California Forest Pest Council, Davis, California, November 2020 (poster).
- **Emilio Vilanova**, Gregory J. Ettl, Hirma Ramírez-Angulo, Armando Torres-Lezama, Gerardo Aymard, Luis Gámez, Néstor Gutiérrez, Cristabel Durán, Lionel Hernández, Rafael Herrera, Geertje van der Heijden, Oliver L. Phillips. Poster presentation: **Monitoring the structure and function of Venezuelan Tropical Forests: summary of findings and the way ahead.** AGU Fall Meeting December 9-13, 2019, San Francisco, USA.
- **Emilio Vilanova**, Hirma Ramírez-Angulo, Armando Torres-Lezama, Gerardo Aymard, Lionel Hernández, Gregory Ettl. **A multidecadal analysis of patterns and processes in Venezuelan tropical forests: insights from permanent sample plots.** 125th IUFRO Anniversary Congress, Freiburg, Germany Sept. 17-23, 2017.
- **Emilio Vilanova**, Gregory Ettl, Hirma Ramírez-Ángulo, Armando Torres-Lezama. **The Relationship between Aboveground Wood Productivity and patterns of tree turnover in Venezuelan tropical forests.** 52nd Annual Meeting of the Association of Tropical Biology and Conservation (ATBC). July 12-16, 2015, Honolulu, Hawaii, USA.
- **Emilio Vilanova**, Hirma Ramírez-Angulo, Armando Torres-Lezama. **A preliminary analysis of long-term dynamics of Venezuelan tropical forests: evidences from field-based Plots.** XXIV IUFRO World Congress. October 5-11, 2014, Salt Lake City Utah.

- **Emilio Vilanova**, Hirma Ramírez-Ángulo, Gustavo Ramírez, Armando Torres-Lezama. **Propuesta de acciones para implementar la forestería a pequeña escala en Venezuela.** III IUFRO Latinamerican congress, San José, Costa Rica, June 2013.
- **Emilio Vilanova**, César Sabogal. La silvicultura en bosques naturales de Venezuela: **Lecciones aprendidas y recomendaciones para la política y la práctica.** III IUFRO Latinamerican congress, San José, Costa Rica, June 2013.
- **Emilio Vilanova**, Hirma Ramírez-Ángulo, Gustavo Ramírez, Armando Torres-Lezama. **Enabling Small Scale Forestry in Venezuela: Taking action at the local scale.** IUFRO 2012 Small-scale Forestry Conference, Amherst, Massachusetts, USA, 23 – 27 September 2012.
- Carlos Pacheco, Inmaculada Aguado, **Emilio Vilanova**, Susana Martínez. **Utilización de las Tecnologías de la Información Geográfica (TIG) en el desarrollo de un sistema de Medición, Reporte y Verificación (MRV) de emisiones de CO2 en tres áreas “hot spot” de deforestación en Venezuela.** XV Congreso Nacional de Tecnologías de la Información Geográfica, Madrid, AGE-CSIC, 19-21 de septiembre de 2012.
- Gutiérrez, Néstor; **Vilanova, Emilio**, Jerez, Mauricio. **Experiencias Silviculturales en Venezuela y su valor para la Restauración del Bosque Seco Tropical** (*Silviculture experiences in Venezuela and its value for Tropical Dry Forest restoration*). IV Congreso Mundial de Restauración Ecológica. México, 13orest 2011.
- **Vilanova, Emilio**, Ramírez-Angulo, Hirma, Torres-Lezama, Armando, Ramírez, Gustavo, Alvarez, Adam. Poster: **Aboveground biomass and carbon in a Forest Frontier of Eastern Venezuela: Analysis from long-term permanent plots and policy recommendations.** XXIII IUFRO World Congress Seoul august 23-28 2010.
- **Vilanova, Emilio**, Ramírez-Angulo, Hirma, Torres-Lezama, Armando, Ramírez, Gustavo. Oral Presentation: **The Forest Concession Model in Venezuelan Guayana: Lessons learned and the way forward for sustainable management.** XXIII IUFRO World Congress Seoul august 23-28 2010.
- Armando Torres-Lezama; **Emilio Vilanova**, Hirma Ramírez-Angulo, Giancarlo Alciaturi. **Socioeconomic and environmental basis for development of Small-Scale Forestry in a highly degraded watershed of the Venezuelan Andes.** Small Scale Forestry in a Changing World: Opportunities and Challenges and the Role of Extension and Technology Transfer IUFRO Conference: Slovenia, Bled, 06 – 10 June 2010.
- **Vilanova, Emilio**; Ramírez-Angulo, Hirma; Torres-Lezama, Armando; Flores Jesús Póster: **Aplicación de las estrategias de reducción de emisiones de carbono por deforestación y degradación (REDD) a un bosque estacional en Venezuela** (*Application of a REDD strategy in a seasonal forest in Venezuela*). XIII Congreso Forestal Mundial, Buenos Aires, Argentina, 18 al 23 de octubre de 2009.
- **Vilanova, Emilio**; Ramírez-Angulo, Hirma; Torres-Lezama, Armando. Póster: **Estado actual de los servicios ambientales en tres ecosistemas contrastantes de Venezuela: Interacciones sociedad-ambiente y propuestas de políticas** (*Current state of ecosystem services in three contrasting ecosystems in Venezuela: human interactions and policy recommendations*). XIII Congreso Forestal Mundial, Buenos Aires, Argentina, 18 al 23 de octubre de 2009.
- **Emilio Vilanova**, Armando Torres-Lezama, Hirma Ramírez-Angulo Póster: **Caparo Forest Conservation through Ecosystem Services: The Last Opportunity for Success?.** US LTER All Scientists Meeting (ASM) 2009 Estes Park COLORADO Septiembre 12 – 16 2009.

- **Emilio Vilanova**, Armando Torres-Lezama, Hirma Ramírez-Angulo **Learning to be a Network: What do we need for the future of Venezuelan LTER Network?**. US LTER All Scientists Meeting (ASM) 2009 Estes Park COLORADO Septiembre 12 – 16 2009.
- Torres-Lezama, Armando; **Vilanova, Emilio**; Ramírez Angulo, H. **An opportunity for small-scale forestry in southern Aragua state, Venezuela: planning and policy issues**. IUFRO 3.08 Small Scale Forestry Symposium: Seeing the Forest Beyond the Trees: New possibilities and expectations for products and services from small-scale forestry. June 7-11, 2009.
- **Vilanova-Torre, Emilio**; Torres-Lezama, Armando; Ramírez-Angulo, Hirma. **Análisis y perspectivas para el manejo de paisajes en la subcuenca del río Mucujún, Mérida Venezuela: principios guía para la creación de un bosque modelo** (*Analysis and Perspectives for landscape Management in Mucujún river subwatershed, Mérida – Venezuela: guiding principles for the establishment of a Model Forest*). I Congreso Iberoamericano de Bosques Modelo, Soria España Noviembre 2008.
- A. Torres-Lezama, **E. Vilanova**, H. Ramírez-Angulo and M. Escalante. **Small-scale forestry in a watershed of the Venezuelan Andes: progress, constraints and opportunities**. Small-scale Rural Forest Use and Management: Global Policies versus Local Knowledge International Symposium. International Union of Forestry Research Organizations (IUFRO) & European Forest Institute (EFI). June 23-27, 2008, Gérardmer, France.
- A. Torres-Lezama, **E. Vilanova**, Ormeno, M.A, H. Ramírez – Angulo y M. Escalante. Poster: **Proposal of multiple use management for two micro watersheds in the Venezuelan Andes (Venezuela)**. Small-scale Rural Forest Use and Management: Global Policies versus Local Knowledge International Symposium. International Union of Forestry Research Organizations (IUFRO) & European Forest Institute (EFI). June 23-27, 2008, Gérardmer, France.
- **Vilanova, Emilio**; Ramírez-Angulo, Hirma; Torres-Lezama, Armando. **El carbono en la biomasa aérea como indicador del impacto del aprovechamiento de maderas en la Reserva Forestal Imataca, Venezuela**. (*Carbon storage in the aboveground biomass as indicator of logging impact in the Imataca Forest Reserve, Venezuela*). Mérida, Venezuela. IV Congreso Forestal Latinoamericano (IV Latin-American Forest Congress).
- Torres-Lezama, Armando; **Vilanova Torre, Emilio**; Ramírez-Angulo, Hirma; Mora, Balbina. **Una propuesta para el desarrollo forestal a pequeña escala en el sur del estado Aragua, Venezuela** (*Proposal for a small-scale forestry development in southern Aragua state, Venezuela*). Mérida, Venezuela. IV Congreso Forestal Latinoamericano (IV Latin-American Forest Congress).
- Torres-Lezama, Armando; Ramírez-Angulo, Hirma; **Vilanova Torre, Emilio**; **Una revisión de la situación de los bosques naturales de Venezuela con énfasis en el manejo forestal** (A critical review on the estate of Venezuelan forests with emphasis on forest management). Mérida, Venezuela. IV Congreso Forestal Latinoamericano (IV Latin-American Forest Congress).
- **Vilanova, E.**, Ramírez-Angulo, H., Torres-Lezama, A y Serrano, J. **Impacto de la extracción forestal de maderas sobre el almacenamiento de carbono en un bosque húmedo de la guayana venezolana** (*Impact of selective logging on carbon stocks in a humid forest of the Venezuelan Guayana*). II Congreso Forestal Latinoamericano IUFRO 2006. La Serena, Chile, 23 – 27 de octubre 2006.
- Torres-Lezama, A., Ramírez-Angulo, H., **Vilanova, E.** y Serrano, J. **Es sostenible el manejo forestal de la Guayana venezolana? Análisis y perspectivas** (*Is the forest management of*

Venezuelan Guayana sustainable?: Analysis and perspectives . II Congreso Forestal Latinoamericano IUFRO 2006. La Serena, Chile, 23 – 27 de octubre 2006.

- Ramírez-Angulo, H., Torres-Lezama, A. **Vilanova, E** y Barros, R. **Recuperación de un bosque estacional venezolano luego de un aprovechamiento forestal** (Recovery of a Venezuelan seasonal forest after logging). II Congreso Forestal Latinoamericano IUFRO 2006. La Serena, Chile, 23 – 27 de octubre 2006.
- Torres-Lezama, Q., Ramírez-Angulo, H. **Vilanova, E.** y Torrens, R. Poster: **The Venezuelan long-term ecological research (LTER) network “EcoRed-Venezuela”: An opportunity to strength the ecological investigation in the neotropics.** 2006 LTER All Scientists Meeting: The next twenty-five years of LTER”. Estes Park, Colorado, Sept. 19 – 23, 2006.
- **Vilanova, E.**, Ramírez-Angulo, H., Torres-Lezama, A y Serrano, J. Poster: **Impact of selective logging on carbon stocks in a humid forest of the Venezuelan Guayana: a need of long-term Ecological Research in forest management.** 2006 LTER All Scientists Meeting: The next twenty-five years of LTER”. Estes Park, Colorado, Sept. 19 – 23, 2006.
- Armando Torres-Lezama, Hirma Ramírez-Angulo, **Emilio Vilanova** **Experiences and initiatives of long-term research in Venezuelan forests.** ILTER Coordinating Committee Meeting Colima, México 2005.
- Hirma Ramírez-Angulo, **Emilio Vilanova**, Rodrigo Barros, Armando Torres-Lezama; **Tree allometric relationships in a Venezuelan tropical seasonal forest.** XXII IUFRO World Congress, Brisbane, Australia. August 2005.
- Armando Torres-Lezama, Hirma Ramírez-Angulo, **Emilio Vilanova** y Rodrigo Barros **A review of natural forest management in Venezuela and perspectives of sustainable development.** XXII IUFRO World Congress, Brisbane, Australia. August 2005.

11. LANGUAGES

- Spanish (native).
- English (spoken, written).

12. OTHER ACTIVITIES

- Venezuelan Ecological Society.
- Venezuelan Forest Engineer Society.
- International Long-Term Ecological Research Network (ILTER).
- Forest Amazon Inventory Network (RAINFOR) <http://www.rainfor.org/>
- Amazon Tree Diversity Network (ATDN) <http://atdn.myspecies.info/>
- California Tree Mortality Data Collection Network
https://ucanr.edu/sites/forestry/Tree_Mortality/Tree_Mortality_Data_Collection_Network/

13. MEDIA COVERAGE

- Public video covering our most recent RAINFOR’s 2020 paper on the climate sensitivity of tropical forests: <https://www.youtube.com/watch?v=mSHHqlAR6SQ&feature=youtu.be>
- Press-release covering our 2018’s RAINFOR paper on compositional changes in Amazon forests due to climate change:
<https://www.sciencedaily.com/releases/2018/11/181108091317.htm>
- Social media post on our PLoS 2018 paper:

- <https://twitter.com/UWEnvironment/status/1014249557817896960>
- Two press-releases covering our 2016's RAINFOR paper on the effects of drought in tropical forests:
- <https://news.mongabay.com/2016/07/study-drought-impedes-tree-growth-shuts-down-amazon-carbon-sink/>
- <https://www.sciencedaily.com/releases/2016/07/160706114625.htm>
- Two press-releases covering our 2015's ATDN paper on conservation status of Amazonian tree diversity:
- <https://www.sciencedaily.com/releases/2016/02/160210111733.htm>
- <https://news.mongabay.com/2015/11/more-than-half-of-the-amazons-tree-species-may-be-threatened-with-extinction/>
- Two press-releases covering our 2015's RAINFOR paper on the decline of the Amazon carbon sink:
- <https://www.sciencedaily.com/releases/2015/03/150318145416.htm>
- <https://www.carbonbrief.org/amazon-rainforest-is-taking-up-a-third-less-carbon-than-a-decade-ago>
- Two press-releases covering our 2013's ATDN paper on the first estimates of tree diversity in Amazonian forests:
- <https://www.sciencedaily.com/releases/2013/10/131017144538.htm>
- <https://www.bbc.com/news/science-environment-24567421>
- Article covering the conservation status of a Venezuelan Experimental forest reserve where an extract of our 2017's MPDI paper was used: <https://news.mongabay.com/2018/05/crisis-in-venezuela-caparo-experimental-station-invaded-by-200-farmers/>
- Appearance in a local TV station to describe the importance of Andean forests in Venezuela: https://www.youtube.com/watch?v=_axH_14JHSs