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Research & Professional Interests

- Paleobotany, plant evolution, systematics, plant anatomy and morphology
- Integrated paleobotanical and neobotanical studies of plant diversity and evolution.
- The study of Mesozoic plants to improve understanding of the timing of events in seed plant evolution.
- The evolutionary origin of the tropical rainforests and angiosperm plant lineages.
- Paleobiogeographic and paleoclimatic history of the Cenozoic.

Education

- **Ph.D. in Biology**, *University of Florida & Florida Museum of Natural History*, 2014. Advisor: Steven R. Manchester.
- **M.Sc. in Geology**, *University of Florida & Florida Museum of Natural History*, 2008. Advisor: Dr. David L. Dilcher.
- **B.S. in Geology**, *Industrial University of Santander*, 2005. Advisor: Dr. Carlos A. Jaramillo.

Relevant Appointments

- **Postdoctoral Research Associate**, *Chicago Botanic Garden & Oak Spring Garden Foundation*, Spring 2014 to present.
- **Adjunct Faculty Member**, *Elmhurst University, Biology Department, Elmhurst, Illinois*. Fall 2017 to present.
- **Adjunct Faculty Member**, *North Park University, Biology Department, Chicago, Illinois*. Spring 2021.
- **Research Associate**, *The Field Museum, Chicago, Illinois*, Spring 2014 to present.
- **Research Associate**, *Smithsonian Tropical Research Institute. Panama*. Fall 2005 to present. Carlos Jaramillo's lab.
- **Intern-Research Assistant**, *National Museum of Natural History, Department of Paleobiology, Smithsonian Institution. Washington, D.C.* Fall 2004, Spring, 2006, Fall 2008. Scott Wing's lab.
- **Research Assistant**, *Biostratigraphy Team, Instituto Colombiano del Petróleo*, 2003-2005.

Teaching Experience

- **Plant Anatomy and Morphology** (BIOLOGY 332-01). Biology Department, Elmhurst College, Fall 2017. Delivered lectures and labs about plant anatomy and morphology, plant evolution, and plant systematics.
- **BIO100**. Biology Department, Elmhurst College, Fall 2018, Fall 2019. Delivered lectures and labs about biology, evolution, and ecology, fossils.
- **Introductory Plant Biology**. Currently developing a new course for the Spring of 2021.
- **Discussion Leader of BIO2** (BSC2011L). Biology Department, Instructor Kent Vliet, University of Florida, Summer 2013, Spring 2014. Coordinated online activities, exercises, and course material covering plant anatomy, organismal physiology, and population/community ecology.

- **Plants and Humans Affairs** (BOT2800). Biology Department, Instructor Matthew Palumbo & Kent Vliet, University of Florida, Fall 2012 to Fall 2013. Delivered lectures and labs about the importance of plants in human history, medicine, and food industry.
- **Introductory Biology** (BSC2011L). Biology Department, Instructor Kent Vliet, University of Florida, Spring 2009 to Spring 2012. BSC2011L is the second core biology laboratory for biology/pre-med majors. The lab covered plant anatomy, organismal physiology and population/community ecology.
- **Practical Plant Taxonomy** (BOT27110). Instructor Walter Judd, University of Florida, Fall 2010. Labs for this upper-division course taught students plant morphology and evolution, systematics and taxonomy of major plant groups, and carried out field trips in Florida.
- **Age of Dinosaurs** (GLY 1102). Geology Department, University of Florida, Fall 2007 – Spring 2008. Coordinated online activities, exercises, and course material covering historical geology and basic paleontological concepts, dinosaur morphology, evolution, diversity, and extinction.
- **Paleobotany Lab** (GLY 6932). Instructor David Dilcher, Spring 2007. Coordinated lab activities and fossil collections. This course taught students about the origin of plants, morphology of major extinct and living plant groups, plant diversity, and the fossil record of the most important angiosperm families.
- **Paleontology**, Industrial University of Santander, Bucaramanga, 2000-2002. Coordinated lab activities and fossil collections.

Grants and Fellowships

- 2018. CoPI NSF. DEB-1748286. Exceptionally well-preserved fossil plants from the Late Jurassic and Early Cretaceous of Mongolia and China. US \$567,730.
- 2017. Oak Spring Garden Foundation. US \$253,069.
- 2018. CoPI NSF. EAR-1829299. Plant-Insect Diversity, Paleobiology, and Paleobiogeography from Early Eocene Neotropical Forests. US \$85,030.
- 2012. NSF – DDIG. Project: Revealing the Floristic and Biogeographic Composition of Paleocene to Miocene Neotropical Forests. US \$14,991.
- 2012. GSA - Student Travel Grant, Charlotte Annual Meeting. US \$500.
- 2012. IPC XIII/IOPC IX 2012, Tokyo, Japan - Student Travel Grant. US \$600.
- 2012. BSA – Paleobotanical Section, IPC XIII/IOPC IX 2012, Tokyo, Japan - Marcia Winslow Award. US \$2,000.
- 2012. Boulter Award, IOPC, Tokyo, Japan. US \$500.
- 2012. Graduate Student Council, Travel Grant, University of Florida. US \$250.
- 2010. American Philosophical Society – Lewis & Clark Foundation. Paleocene and Eocene Neotropical Floras: Understanding the earliest rainforests in northern South America. US \$3,500.
- 2010. Biology Department, University of Florida, Student Travel Award, Fall, US \$350.
- 2010. GSA - Student Travel Grant, Denver Annual Meeting. US \$100.
- 2010. Gary S. Morgan Student Research award. A new late Paleocene Flora from the Bogota Formation (Colombia) and its significance for understanding the early Evolution of Neotropical Rainforest. US \$1,000.
- 2010. Asociación Colombiana de Geólogos y Geofísicos del Petróleo ACGGP- ARES. Project: Nuevas Floras del Paleoceno de la Formación Bogotá y su Importancia para el Entendimiento y Evolución de los Bosques Neotropicales. US \$3,000.
- 2009. GSA - Research Grant. Paleocene tropical Floras: Implications for the Paleoclimate and the Evolution of the Rainforests. US \$4,000.
- 2009. Evolving Earth Student Grant. New Fossil Collections from the Paleocene of Colombia: Implications for the Paleoclimate and the Evolution of the Rainforests. US \$3,000.
- 2008. Botanical Society of America, Student Travel Award, IOPC-VIII, Bonn, Germany. US \$500.

- 2008. AASP - The Palynological Society, Student Travel Award, IOPC-VIII, Bonn, Germany. US \$700.
- 2007. AASP - The Palynological Society, Student Travel Award Panama Meeting. US \$750.
- 2005. Geology Department, University of Florida, Student Travel Award. US \$250.
- 2005. Banco de la República grant. El primer registro fósil de un bosque húmedo tropical? paleoclima y paleodiversidad. US \$6,800 (shared).
- 2004. Asociación Colombiana de Geólogos y Geofísicos del Petróleo ACGGP, Grant, Proyecto: Paleoclima del Paleoceno Superior en zonas tropicales usando plantas megafósiles de la Formación Cerrejón. US \$500.
- 2004. National Museum of Natural History, Smithsonian Institution. Project: An Ancient Tropical Rainforest and Its Implications for Global Climate. US \$4,942 (shared).
- 2004. Youth Activity Fund, The Explorers Club Grant. Project: Solving the Cool Tropical Paradox. US \$1,500.
- 2004. Promoción de Jóvenes Investigadores Grant, Corporación Geológica ARES, Proyecto: Paleoclima del Paleoceno Superior en zonas tropicales usando plantas megafósiles de la Formación Cerrejón. US \$300.

Special Recognitions

- 2014. The Maynard Moseley Award. Botany 2014.
- 2014. The Best Graduate Student Oral Presentation, honorable mention. The Paleontological Society.
- 2012. Oliver Austin Award for Graduate Student Excellence in Natural Science Research at the Florida Museum of Natural History.
- 2007. Certificate of Academic Excellence, College of liberal Arts and Sciences, University of Florida.
- 2006. Certificate of Academic Excellence, College of liberal Arts and Sciences, University of Florida.
- 2004. Thesis of the year. Asociación Colombiana de Geólogos y Geofísicos del Petróleo ACGGP / Corporación Geológica ARES, Bogotá Abril 1.

Mentoring

- Advised and Trained Students in Paleobotany:
2018-2021. Maya Bickner. Northwestern University.
2020-2021. Daniela Elizabeth Quiroz Cabascango. Yachay Tech University.
2019. Héctor Daniel Palma Castro. Universidad Nacional, Colombia.
2018. Olivia Seweryn. Iowa State University.
2017. G. Tsolmon. Institute of Paleontology, Mongolian Academy of Sciences.
2016-2017. Allison M. Buiser, Knox College.
2016. Julian Herting, Ruhr-Universität Bochum.
2015. Nicole Zigmunt, Lake Forest College.
2014. Carolyn Thornton, The College of Wooster.
2014. Linsey Nowack, Adlai E. Stevenson High School, IL.
2012-2013. Esteban Perez, University of Florida.
2011. Gregory W. Stull, University of Florida.
2009-2011. Camila Martinez, Universidad de los Andes, Colombia.
2006-2008. Monica R. Carvalho, Universidad Nacional de Antioquia, Colombia.
2005-2007. Nestor M. Gutierrez, Universidad Pedagógica y Tecnológica, Colombia.
2004-2006. Gabriela Doria, Universidad Nacional, Bogotá, Colombia.
2004-2006. Carolina Gomez, Universidad Nacional de Antioquia, Colombia.

Service

- Chair BSA Paleobotany Section 2016-2018
- MorphoBank Executive Committee 2018-2019
- Editor International Journal of Plant Sciences
- Reviewer for American Journal of Botany, Review of Palaeobotany and Palynology Journal, PALAIOS, PlosOne, Journal of Systematics and Evolution, etc.

Outreach & Media Coverage

- Early Cretaceous fossils from Mongolia
 - <https://www.indefenseofplants.com/podcast/2021/1/17/ep-300-reconstructing-a-cretaceous-flora>
 - https://www.eurekalert.org/pub_releases/2020-07/scp-jff071020.php
 - <https://blogs.scientificamerican.com/laelaps/paleo-profile-mongolias-ginkgo-cousin/>
 - <https://www.youtube.com/watch?v=yvAKx9emMv8>
 - <https://chicagobotanicgarden.smugmug.com/Public-Programs/Mongolian-Fossil-Exhibit/n-DwT8Zg/i-KqXFgDG>
 - https://www.chicagobotanic.org/research/science_news/when_legumes_ruled_world?fbclid=IwAR2XKw9JR5ctGlqsgHTr_sf6q2q8JCkSyMoK0PtgIuxT7mmKW7S2VqjjJ2w
- Origin of Neotropical Rainforests:
 - <https://www.youtube.com/watch?v=w9ijeVks-n4>
 - https://www.chicagobotanic.org/research/science_news/how_chicxulub_impactor_gave_rise_modern_rainforests
 - <http://www.humboldt.org.co/es/component/k2/item/1198-hace-tiempo-libro>
 - http://www.flmnh.ufl.edu/sciencestories/2009/neotropical_rainforest.htm
- Fossils from Panama:
 - https://www.chicagobotanic.org/research/science_news/scientist_discovers_new_species_plant_fossils
- Rediscovery of the Oligocene Belén Flora from Peru:
 - http://www.flmnh.ufl.edu/sciencestories/2011/grape_fossil.htm
- Titanoboa: Monster Snake, Smithsonian Channel:
 - <http://www.smithsonianchannel.com/site/sn/show.do?show=140671#bios>
- Gale CommUNITY Academy: Meet a Scientists. Feb. 12, 2021.
- Northwood Junior High at Elm Place. YESS Program. Fossil Plants Are Cool! Feb. 25, 2020.
- ESCONI: Earth Science Club of Northern Illinois (fossil club). Discovering Early Cretaceous Fossil Plants from the Steppes of Mongolia. Wheaton, IL, Apr. 8th 2016.
- Lincoln Orbit Earth Science Society (fossil club). Fossilized Plants of the Early Cretaceous of Mongolia. Springfield, IL, Oct. 19th 2015.
- Florida Museum of Natural History, Fossil Day. 60 million year old fossil snakes and plants from Colombia, Gainesville, FL, Jan. 26th 2013.
- Florida Paleontological Society, INC (fossil club). Paleocene fossils from Colombia are the earliest record of Neotropical rainforests, Marianna, FL, Oct. 16th, 2010.

Professional Affiliations

- Geological Society of America (GSA).
- Botanical Society of America (BSA).
- The International Organization of Palaeobotany (IOP).

Published Articles, Book Chapters, Press or in Review

Herrera F., Shi G., Bickner M., Ichinnorov N., Leslie A, Herendeen P.S., Crane P.R. *In press*. Early Cretaceous (abietoid) Pinaceae from Mongolia and the evolution of seed scale shedding. *American Journal of Botany*.

Carvalho M.R., Jaramillo C., de la Parra F., Caballero-Rodríguez D., **Herrera F.**, et al. 2021. Extinction at the end-Cretaceous set the origin of modern Neotropical rainforests. *Science*. Vol. 372, Issue 6537, pp. 63-68. [DOI: 10.1126/science.abf1969](https://doi.org/10.1126/science.abf1969)

Shi G., **Herrera F.**, Herendeen P.S., Clark E.G., Crane P.R. *In Press*. The cupules of Mesozoic seed plants and the origin of the angiosperm second integument. *Nature*.

Matsunaga K.K.S., Herendeen P.S., **Herrera F.**, Ichinnorov N., Crane P.R., Shi G. *In press*. Ovulate cones of *Schizolepidopsis ediae* sp. nov. provide insights into the evolution of Pinaceae. *International Journal of Plant Sciences*.

Carvalho M.R., **Herrera F.**, Gómez S., Martínez C., Espitia J.E., Jaramillo C. 2021. Early records of Melastomataceae from the middle-late Paleocene rainforests of South America conflict with Laurasian origins. *International Journal of Plant Sciences*. <https://doi.org/10.1086/714053>

Giraldo A., **Herrera F.**, Labandeira C., Carvalho M.R. 2021. Rich and specialized plant-insect associations in a middle-late Paleocene (58–60 Ma) Neotropical rainforest (Bogotá Formation, Colombia). *Ameghiniana*. [doi: 10.5710/AMGH.17.02.2021.3390](https://doi.org/10.5710/AMGH.17.02.2021.3390)

Manchester SR, Lott TA, **Herrera F.**, Fritsch PW. *In press*. *Symplocos* Fruits from the Pliocene of Colombia. *Systematic Botany*.

Takahashi M., Herendeen PS., **Herrera F.**, Hirayama M., Ando H., Sasaki K., Crane PR. 2021. A New Assemblage of Plant Mesofossils (Late Turonian–Middle Santonian; Upper Cretaceous) from the Tamagawa Formation, Kuji Group, in Northeastern Japan. *Paleontological Research*, 25 (2):120-126. <https://doi.org/10.2517/2020PR015>

Shi G. Li J., Tan T., Dong C., Li Q., Wu W., Zhang B., Yin S., **Herrera F.**, Herendeen PS., Crane, PR. *In press*. Age of the Huolinhe Formation in the Huolinhe Basin, eastern Inner Mongolia, China: evidence from U-Pb zircon dating and palynological assemblages. *Journal of Stratigraphy*.

Wang, Z., **Herrera F.**, Shu J., Yin S., Shi G. 2020. A new *Choerospondias* (Anacardiaceae) endocarp from the middle Miocene of Southeast China and its paleoecological implications. *Review of Palaeobotany and Palynology* 283: 104312. <https://www.sciencedirect.com/science/article/pii/S0034666720301275>

Dong C, Shi G, **Herrera F.**, Wang Y, Herendeen PS, Crane PR. 2020. Middle–Late Jurassic fossils from northeastern China reveal morphological stasis in the catkin-yew. *National Science Review*, nwaal38, <https://doi.org/10.1093/nsr/nwaa138>

- Herrera F.**, Shi G., Mays C., Ichinnorov N., Takahashi M., Bevitt JJ., Herendee PS., Crane PR. 2020. Reconstructing *Krassilovia mongolica* supports recognition of a new and unusual group of Mesozoic conifers. *PLoS ONE* 15(1): e0226779. <https://doi.org/10.1371/journal.pone.0226779>
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0226779>
- Graham, HV., **Herrera F.**, Jaramillo C., Wing SL., Freeman KH. 2019. Canopy Structure in Late Cretaceous and Paleocene Forests as Reconstructed from Carbon Isotope Analyses of Fossil Leaves. *Geology*. 47 (10): 977–981.
<https://doi.org/10.1130/G46152.1>
- Herrera F.**, M. Carvalho, S.L. Wing, C. Jaramillo, and P.S. Herendeen. 2019. Middle-Late Paleocene Leguminosae Fruits and Leaves from Colombia. *Australian Systematic Botany (invited)*. 32(6): 385-408
<https://doi.org/10.1071/SB19001>
<http://www.publish.csiro.au/SB/SB19001>
- Herrera F.**, M. Carvalho, C. Jaramillo, and S.R. Manchester. 2019. 19 Million-Year-Old Spondioid Fruits from Panama Reveal a Dynamic Dispersal History for Anacardiaceae. *International Journal of Plant Sciences* 180 (6): 479–492.
<https://www.journals.uchicago.edu/doi/abs/10.1086/703551>
- Herendeen, P.S. and **F. Herrera**. 2019. Eocene Fossil Legume Leaves Referable to the Extant Genus *Arcoa* (Caesalpinioideae, Leguminosae). *International Journal of Plant Sciences* 180(3): 220-231.
<https://www.journals.uchicago.edu/doi/pdfplus/10.1086/701468>
- Shi G., Crane P.R., Herendeen P.S., Ichinnorov N., Takahashi M., and **Herrera F.** 2019. Diversity and homologies of corystosperm seed-bearing structures from the Early Cretaceous of Mongolia. *J. Syst. Palaeontol.* 17 (12) 997–1029.
<http://dx.doi.org/10.1080/14772019.2018.1493547>
- Herrera F.**, G. Shi, G. Tsolmon, N. Ichinnorov, M. Takahashi, P.R. Crane, P.S, Herendeen. 2018. Exceptionally Well-Preserved Early Cretaceous Leaves of *Nilssoniopteris* from Central Mongolia. *Acta Palaeobotanica* 58(2): 135–157.
<https://content.sciendo.com/view/journals/acpa/58/2/article-p135.xml>
- Herrera F.**, J.D. Mitchell, S.K. Pell, M.E. Collinson, D.C. Daly, and S.R. Manchester. 2018. Fruit Morphology and Anatomy of the Spondioid Anacardiaceae. *The Botanical Review* 84(4): 315–393.
<https://doi.org/10.1007/s12229-018-9201-1>
- Nicolas Pérez-Consuegra, Daniel E. Góngora, **Fabiany Herrera**, Carlos Jaramillo, Camilo Montes, Aura M. Cuervo-Gómez, Austin Hendy, Alejandro Machado, Damian Cárdenas, German Bayona. 2018. New records of Humiriaceae fossil fruits from the Oligocene and Early Miocene of the western Azuero Peninsula, Panamá. *Boletín de la Sociedad Geológica Mexicana*. Vol. 70 No. 1, P. 223–239.
<http://dx.doi.org/10.18268/BSGM2018v70n1a13>
- Herrera F.**, R.C. Moran, G. Shi, N. Ichinnorov, M. Takahashi, P.R. Crane, P.S, Herendeen. 2017. An Exquisitely-Preserved Filmy Fern (Hymenophyllaceae) From the Early Cretaceous of Mongolia. *American Journal of Botany* 104(9): 1370-1381.
<http://www.amjbot.org/content/early/2017/09/28/ajb.1700246.abstract>
- Pérez-Consuegra, N., A. Cuervo-Gómez, C. Martínez, C. Montes, **F. Herrera**, S. Madriñán, and C. Jaramillo. 2017. Paleogene *Salvinia* (Salviniaceae) from Colombia and their paleobiogeographic implications. *Review of Palaeobotany and Palynology* 246 (2017) 85–108
<http://www.sciencedirect.com/science/article/pii/S0034666716302007>

Herrera F., G. Shi, N. Ichinnorov, M. Takahashi, E. Bugdaeva, P.S, Herendeen, and P.R. Crane. 2017. The presumed ginkgophyte *Umaltolepis* has seed-bearing structures resembling those of Peltaspermales and Umkomasiales. *Proceedings of the National Academy of Sciences USA*: 114 (12) E2385-E2391.

<http://www.pnas.org/content/114/12/E2385.abstract>

Shi, G., **Herrera, F.**, Herendeen, P.S., Leslie, A.B., Ichinnorov, N., Takahashi., and Crane, P.R., 2017. Leaves of *Podozamites* and *Pseudotorellia* from the Early Cretaceous of Mongolia: stomatal patterns and implications for relationships. *Journal of Systematic Palaeontology*. doi.org/10.1080/14772019.2016.1274343

<http://www.tandfonline.com/doi/abs/10.1080/14772019.2016.1274343>

Herrera F., G. Shi, P. Knopf, A.B. Leslie, N. Ichinnorov, M. Takahashi, P.R. Crane, and P.S, Herendeen. 2017. Cupressaceae Conifers from the Early Cretaceous of Mongolia. *International Journal of Plant Sciences*, 178(1): 19–41.

<http://www.journals.uchicago.edu/doi/pdfplus/10.1086/689577>

Herrera F., A.B. Leslie, G. Shi, P. Knopf, N. Ichinnorov, M. Takahashi, P.R. Crane, and P.S, Herendeen. 2016. New Fossil Pinaceae from the Early Cretaceous of Mongolia. *Botany* 94: 885–915. DOI 10.1139/cjb-2016-0042. (invited)

<http://www.nrcresearchpress.com/doi/pdfplus/10.1139/cjb-2016-0042>

Collinson, M.E., Adams, N.F., Manchester, S.R., Stull, G.W., **Herrera, F.**, Smith, S.Y., Andrew, M.J., Kenrick, P., and Sykes, D. 2016. X-ray micro-computed tomography (micro-CT) of pyrite-permineralized fruits and seeds from the London Clay Formation (Ypresian) conserved in silicone oil: a critical evaluation. *Botany* 94: 697–711. DOI: 10.1139/cjb-2016-0078

<http://www.nrcresearchpress.com/doi/pdfplus/10.1139/cjb-2016-0078>

Shi, G., Leslie, A.B., Herendeen, P.S., **Herrera, F.**, Ichinnorov, N., Takahashi, M., Knopf, P. and Crane, P.R., 2016. Early Cretaceous *Umkomasia* from Mongolia: implications for homology of corystosperm cupules. *New Phytologist* 210: 1418–1429

<http://onlinelibrary.wiley.com/doi/10.1111/nph.13871/full>

Jud, N.A., Nelson, C.W. and **Herrera, F.**, 2016. Fruits and wood of *Parinari* from the early Miocene of Panama and the fossil record of Chrysobalanaceae. *American Journal of Botany* 103 (2): 1 – 13, 2016.

<https://bsapubs.onlinelibrary.wiley.com/doi/full/10.3732/ajb.1500425>

Herrera, F., Shi, G., Leslie, A. B., Knopf, P., Ichinnorov, N., Takahashi, M., Crane, P. R. & Herendeen, P. S. (2015). A New Voltzian Seed Cone from the Early Cretaceous of Mongolia and Its Implications for the Evolution of Ancient Conifers. *International Journal of Plant Sciences*, 176(8): 791-809.

<http://www.jstor.org/stable/10.1086/683060>

Herrera, F., SR. Manchester, MR. Carvalho, C. Jaramillo, and SL. Wing. 2014. Fossil wind-dispersed fruits and seeds from the Paleocene of Colombia and their implications for early Neotropical rainforests. *Acta Palaeobotanica* 54 (2): 197–229. DOI:10.2478/acpa-2014-0008.

http://www.botany.pl/ibwyd/acta_paleo/act-p54.html

Herrera, F., SR. Manchester, J. Vélez-Juarbe, and C. Jaramillo. Phytogeographic History of the Humiriaceae (Part 2). 2014. *International Journal of Plant Sciences*, 175 (7): 828-840.

<http://www.jstor.org/stable/10.1086/676818>

Herrera, F., SR. Manchester, R. Koll, and C. Jaramillo. 2014. Fruits of *Oreomunnea* (Juglandaceae) in the Early Miocene of Panama. In W. D. Stevens, Olga Martha Montiel, and Peter H. Raven [eds.], *Paleobotany and Biogeography, A Festschrift for Alan Graham in His 80th Year*, 124-133. Missouri Botanical Garden Press, St. Louis, Missouri (*invited*).
[https://www.researchgate.net/publication/266383140_fruits_of_oreomunnea_\(juglandaceae\)_in_the_early_miocene_of_panama](https://www.researchgate.net/publication/266383140_fruits_of_oreomunnea_(juglandaceae)_in_the_early_miocene_of_panama)

Jaramillo, C., Moreno, E., Ramirez, V., da Silva, S., Barrera, Atria, Barrera Adhara, Moron, S., **Herrera, F.**, Escobar, J. Koll, R., Manchester, S. and Hoyos, N. 2014. Palynological Record of the Last 20 Million Years in Panama. In W. D. Stevens, Olga Martha Montiel, and Peter H. Raven [eds.], *Paleobotany and Biogeography, A Festschrift for Alan Graham in His 80th Year*, 124-133. Missouri Botanical Garden Press, St. Louis, Missouri.
https://www.researchgate.net/publication/266383261_Palynological_record_of_the_last_20_Million_years_in_Panama?ev=prf_pub

Herrera, F., SR. Manchester, and C. Jaramillo. 2012. Permineralized fruits from the late Eocene of Panama give clues of the composition of forests established early in the uplift of Central America. *Review of Palaeobotany and Palynology*, 175, 10–24.
<http://www.sciencedirect.com/science/article/pii/S0034666712000371>

Manchester, SR., **F. Herrera**, E. Fourtanier, J. Barron, and J-N. Martinez. 2012. Oligocene age of the classic Belén fruit and seed assemblage of north coastal Peru based on diatom biostratigraphy. *The Journal of Geology*, 120: 467–476.
<http://www.jstor.org/stable/10.1086/665797>

Stull, GW., **F. Herrera**, SR. Manchester, C. Jaramillo, and BH. Tiffney. 2012. Fruits of an “Old World” tribe (Phytocreneae; Icacinaceae) from the Paleogene of North and South America. *Systematic Botany*, 37(3): 784-794.
<http://www.bioone.org/doi/abs/10.1600/036364412X648724>

Herrera, F., SR. Manchester, SB. Hoot, K. Wefferling, MR. Carvalho, and C. Jaramillo. 2011. Phytogeographic Implications of Fossils Endocarps of Menispermaceae from the Paleocene of Colombia. *American Journal of Botany*, 98(12), 2004–2017.
<http://www.amjbot.org/content/98/12/2004.abstract>
http://www.morphobank.org/index.php/Projects/ProjectOverview/project_id/407

Carvalho, MR., **F. Herrera**, CA. Jaramillo, SL. Wing, and R. Callejas. 2011. Paleocene Malvaceae from northern South America and their biogeographical implications. *American Journal of Botany*, 98(8), 1337–1355.
<http://www.amjbot.org/content/98/8/1337.abstract>

Peppe, D., Royer, D., Cariglino, C., Oliver, S., Newman, D., Leight, E., Enikolopov, G., Fernandez-Burgos, M., **Herrera, F.**, Adams, J., Correa, E., Currano, E., Hinojosa, F., Hoganson, J., Iglesias, A., Jaramillo, C., Johnson, K., Kraft, K., Levelock, E., Lusk, C., Niinemets, U., Peñuelas, J., Rapson, G., Wing, S., and Wright, I. 2011. Sensitivity of leaf size and shape to climate: global patterns and paleoclimatic applications. *New Phytologist*, 190: 724-739.
<http://onlinelibrary.wiley.com/doi/10.1111/j.1469-8137.2010.03615.x/abstract>

Herrera, F., SR. Manchester, C. Jaramillo, B. MacFadden, and SA. da Silva-Caminha. 2010. Phytogeographic History and Phylogeny of the Humiriaceae, *International Journal of Plant Sciences*, 171(4): 392–408.
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