

1.-PERSONAL INFORMATION:

Name and last names: Ismael Enrique Hernández Valencia.
Nationality: Venezuelan
Work address: Universidad Central de Venezuela. Instituto de Zoología y Ecología Tropical. Centro de Ecología Aplicada. Facultad de Ciencias Ciudad Universitaria. Caracas 1081-A. Venezuela
Email: ismael.hernandez@ciens.ucv.ve/

2.-ACADEMIC QUALIFICATIONS:

Primary education:

- **Institution:** Unidad Escolar Gran Colombia. Instituto Experimental de Formación Docente. **Year:** 1969-
Degree: Primary Education Certificate.

High School

- **Institution:** Instituto Experimental de Formación Docente. **Year:** 1976. **Degree:** Bachelor of Science and Humanities

University

- **Institution:** Universidad Central de Venezuela. Facultad de Ciencias. **Year:** 1985. **Degree:** Bachelor of Biology.

Postgraduate

- **Institution:** Universidad Central de Venezuela. Facultad de Ciencias. **Year:** 1996, **Degree:** Doctor of Science, Ecology Mention.
- **Institution:** Universidad Iberoamericana Internacional. **Year:** 2012, **Degree:** Specialist in the recovery of contaminated soils.

3.-WORK EXPERIENCE

1980-1981

- Asistant II. Plant Biology Lab. (twice). Biology School, Science Faculty, Universidad Central de Venezuela.

1981-1985

- Asistant II. Biostatistics (5 times). Biology School, Science Faculty, Universidad Central de Venezuela.

1982-1984.

- Assistant II (3 times), Animal Ecology Lab. Biology School, Science Faculty, Universidad Central de Venezuela.

1985

- Production and Quality Control Supervisor. Labotecnica SRL. Caracas, Venezuela.

1986

- Administrative and technical manager. Biosigma C.A. Caracas, Venezuela.

1986-1993

- Administrative and technical manager. H.Lab Laboratorios Bioquímicos C.A. Caracas, venezuela.

1989-1993

- Instructor teacher. Part time. Plant Ecology Lab. Biology School, Science Faculty, Universidad Central de Venezuela.

1989 a la fecha.

- Environmental advisor to Companies: Ecoproyectos, Ambioconsult, Caura Ingeniería, Consultores Ambientales 3C, Organización Diego Cisneros, Hidroambiente, Geohidra, Reif Consultores, Planigestión, Arborea, EIA Consultores y Proconsult.

1993-1999

- Researcher and instructor professor. Instituto de Zoología y Ecología Tropical, Science Faculty, Universidad Central de Venezuela.

1999 a 2005

- Researcher and Assistant professor. Instituto de Zoología y Ecología Tropical, Science Faculty, Universidad Central de Venezuela.

2005-2012

- Researcher and aggregate professor. Instituto de Zoología y Ecología Tropical, Science Faculty, Universidad Central de Venezuela.

2012 a 2019

- Researcher and associate profesor. Instituto de Zoología y Ecología Tropical, Science Faculty, Universidad Central de Venezuela.

2019 a la fecha

- Researcher and Full profesor. Investigador profesor Titular. Instituto de Zoología y Ecología Tropical. Facultad de Ciencias. Science Faculty, Universidad Central de Venezuela

1993 a la fecha

- Professor of the School of Biology, Faculty of Sciences, UCV, of the undergraduate courses of: Ecology I, Ecology II, Laboratory of Ecology I, Laboratory of Ecology II, Principles of Biology, Analysis and Dynamics of Vegetation, Forest Ecology, Mineral Nutrition, Soil Resource Assessment, Research Methods and Laboratory Methods. .

1997 a la fecha

- Professor for postgraduate courses in Ecology at the Faculty of Sciences, Universidad Central de Venezuela: Environmental Impact Assessment, Environmental Impact of Oil Activities, Wetland Ecology, Nutritional Aspects in Savannas, Biogeochemical Cycles, Soil Biology and Restoration Ecology.

2004

- Teacher of the course: Structure and operation of the morichales and methodology to evaluate the anthropic impacts. Petróleos de Venezuela, S. A.- Environmental Ministry of Venezuela.

2005, 2011

- Visiting Professor of the Postgraduate Course in Tropical Ecology, Ecology Course. Universidad de los Andes, Merida, Venezuela .

2008-2009.

- Advisor, Centro de Ecología y Ambiente. Instituto Venezolano de Investigaciones en Petróleo.

2011

- Teacher of the course: Instructor del curso: The Morichal ecosystem in the Eastern Plains of Venezuela: its structure, operation and ecological restoration. Instituto Venezolano de Investigaciones en Petróleo.

2013 a 2015

- Environmental advisor. Geophysics Management. Petróleos de Venezuela, S. A.-

4.-OTHER COURSES AND INTERSHIPS

1978

- UCV, ULA, MARNR, ME. Conservation of Natural Resources and Ecological Balance in Venezuela. Conservation of Natural Resources and Ecological Balance in Venezuela.

1984

- Instituto Venezolano de Investigaciones Científicas. Undergraduate student.

1989

- Science faculty, Universidad Central de Venezuela., Postgrado de Ecología. Microcomputing Techniques in Ecology and their application in digitization and image processing. .

1990

- Science faculty, Universidad Central de Venezuela., Postgrado de Ecología. Phosphorus and its Transformations in Tropical Systems.

1992

- Instituto Venezolano de Investigaciones Científicas. Phytogeography.
- 1994**
- Facultad de Ciencias, Postgrado de Ecología, UCV. Ecological Restoration.
 - Facultad de Humanidades, Postgrado de Geografía, UCV. Analysis of Scenarios in the Evaluation of Environmental Impacts.
- 1997**
- Instituto Venezolano de Investigaciones Científicas. Agroecology and Development in the Biosphere.
- 1998.**
- Science faculty, Universidad Central de Venezuela., Postgrado de Ecología. Landscape ecology and sustainability.
- 2005**
- Instituto Venezolano de Investigaciones Científicas. Production of arbuscular mycorrhizal inoculants.
- 2007**
- Instituto Venezolano de Investigaciones Científicas. Biotechnological use of soil microorganisms.
 - Centro Agronómico Tropical de Investigación y Enseñanza. Turrialba. Costa Rica. Tools for the quantification of carbon sequestration in land use systems.
- 2008**
- Instituto de Agrobiología del Consejo Superior de Investigaciones Científicas. Santiago de Compostela. España. 2008. Internship at the Soil Biochemistry Laboratory
 - Facultad de Farmacia de la Universidad de Santiago de Compostela, España. 2008. Internship in the Laboratory of Soil Science and Agricultural Chemistry.
- 2013**
- Centro Internacional de Estudios y Desarrollo de Energía. Module C: Industrial Safety, Environment and Occupational Hygiene.
- 2015**
- University of Illinois at Urbana-Champaign. Introduction to Sustainability.
 - Banco Interamericano de Desarrollo. Instituto Interamericano para el Desarrollo Económico y Social. Fundamentals of climate change.
 - Organización de las Naciones Unidas. Introduction to climate change.
- 2019**
- World Bank Group. Let's lower the temperature: From climate science to action
 - Postgraduate Studies in Geochemistry. Universidad Central de Venezuela. Determination of the environmental baseline of hydrocarbons for exploration and exploitation processes
- 2020**
- INTA, SupAgro, Agrenntum. Agroecology
 - CIDIAT. Universidad de los Andes. Urban Actions against Climate Change

5.-APPOINTMENTS

1999

- Member of the organizing committee of the III Venezuelan Congress of Ecology. Puerto Ordaz. Venezuela.

1999-2001-2012-2013-2018

- Coordinator of the Teaching Unit of Terrestrial Ecology. Department of Ecology, School of Biology. Faculty of Sciences, Universidad Central de Venezuela.

2000 a 2002, 2008-2013

- Teacher Representative before the Board of the School of Biology. Science Faculty. Universidad Central de Venezuela.

2002-2003

- Representative of the National Universities before the Technical Standards Commission of the Ministry of the Environment

2000-2007

- Member of the Commission of the Technical Commission of Agricultural Sciences. National Council for Scientific Research..

2001 a la fecha

- Member of the Board of Reviewers of the Bioagro Journal. Universidad Centro Occidental Lisandro Alvarado.

2008 a la fecha

- Member of the Academic Committee of the Postgraduate Ecology, Science faculty, Universidad Central de Venezuela.

2012.

- Founding Chief of the Center for Applied Ecology of the Institute of Tropical Zoology, Faculty of Sciences, Universidad Central de Venezuela.
- Member of the organizing committee of the II Venezuelan Symposium on Ecological Restoration. Science Faculty. Universidad Central de Venezuela.
- Member of the Technical Council of the Instituto de Zoología y Ecología Tropical, Universidad Central de Venezuela (2012-2015).
- Member of the Environment Technical Commission of the Academies of Physical, Mathematical and Natural Sciences of Venezuela. .

2014

- Member of the organizing committee of the III Venezuelan Symposium on Ecological Restoration. Science Faculty. Universidad Central de Venezuela.

2016

- Member of the organizing committee of the IV Venezuelan Symposium on Ecological Restoration. Science Faculty. Universidad Central de Venezuela.

2018.

- Member of the organizing committee of the V Venezuelan Symposium on Ecological Restoration. Science Faculty. Universidad Central de Venezuela.

6.-ACKNOWLEDGMENTS.

- Honorific mention. Thesis. Ecology Postgraduate. Science Faculty, Universidad Central de Venezuela 1996.
- Sponsor of the Promotion of Graduates in Biology Universidad Central de Venezuela. 1997.
- Sponsor of the Promotion of Graduates in Biology Universidad Central de Venezuela. 2015.
- Member of the Researcher Promotion Program from 1995 to 2010
- Member of the Research Stimulus Program from 2011 to 2017.
- Order Waraira Repano-Cerro El Avila. First class. Mayor of Libertador Municipality. 2011.
- José María Vargas Order. License plate Universidad Central de Venezuela. 2014.

7.- PUBLICATIONS IN PEER REVIEWED JOURNALS.

- **1.-Hernández-Valencia, I.** Medina, E. y López Hernández, D. 1995. Soil respiration and inputs of organic matter by roots and litter in a sugarcane crop. *Agronomía Tropical* 45 (1):121-142.
- **2.- Hernández-Valencia, I.** y López-Hernández, D. 1997. Distribution of phosphorus in a *Trachypogon* savanna of the Central High Plains. *Acta Biológica Venezuelica*. 17 (2) 59-65.
- **3.- Hernández-Valencia, I.** y López-Hernández, D. 1997. Fluxes of organic matter in the herbaceous layer of a *Trachypogon* savanna subjected to burning and grazing. *Acta Biológica Venezuelica* 17(4): 23-33.
- **4.- Hernández-Valencia, I.** y López-Hernández, D. 1999. Allocation of phosphorus in a tropical savanna. *Chemosphere* 39 (2): 199-207.
- **5.- Hernández-Valencia, I.** y López-Hernández, D. 1999. Effects of burning on the phosphorus cycle in a *Trachypogon* savanna. *Ecotrópicos* 12 (1):3-8.
- **6.- Hernández-Valencia, I.,** López, A. y López-Hernández, D. 1999. Changes in nutritional content in sandy savanna soils under prolonged organic fertilization. *Ecotrópicos* 12(1):9-14.

- **7.- Hernández-Valencia, I.** y D. López-Hernández. 2000. Phosphorus dynamics in the herbaceous stratum of a *Trachypogon* savanna subjected to burning and grazing. *Acta Biológica Venezuelica*. 20 (2): 49-62.
- **8.- Toro, M., Blones, J. e I. Hernández-Valencia.** 2001 Phosphorus dynamics and biological activity in the mycorrhizospheres of two adjacent ecosystems with contrasting vegetation and soils. *Acta Biológica Venezuelica*. 21(2): 63-70.
- **9.- Hernández-Valencia, I.** y D. López-Hernández. 2002. Nutrient loss due to vegetation burning in a *Trachypogon* savanna. *Revista de Biología Tropical* 50 (3/4): 1013-1019.
- **10.- Hernández-Valencia I** y D. Mager 2003. Use of *Brachiaria brizantha* and *Panicum maximum* to remediate soils contaminated with light hydrocarbons. *Bioagro* 15(3): 149-155.
- **11.-** López-Hernández, D.; Araujo, Y.; López, A.; **Hernández-Valencia, I.**; & Hernández, C. 2004. Changes in the soil properties and in earthworms populations as induced by organic long-term fertilization on a sandy savanna soil in venezuelan amazonia. *Soil Science* 169 (3):188-194.
- **12.- Hernández-Valencia, I.** y M. Bautis. 2005. Changes in the phosphorus content in the surface soil due to the conversion of savannas into pine forests. *Bioagro*.17(2): 69-78.
- **13.-** López, A., **Hernández-Valencia, I.**, y D. López- Hernández. 2006. Fractionation of phosphorus in organic farms located on sandy soils of the Venezuelan Amazon. *Agrobiológica* 3 (5): 22-28.
- **14.** López-Hernández, D., López, A., **Hernández-Valencia, I.**, Ojeda, A. y C. Hernández. 2006. Changes in the biogenic elements (C, N and P) and their active forms (microbial and enzymatic) in organic production systems located in the Venezuelan Amazon. *Agrobiológica* 3 (5): 29-35.
- **15.** López, A.Y., **Hernández-Valencia, I.** y D. López-Hernández, D. 2007. Fractionation of soil phosphorus in organic amended farms in sandy ultisols of Venezuelan Amazonian. *Biol. Fert. Soils*. 43(6): 771-777.
- **16.-** López-Hernández, D., **Hernández-Valencia, I.** e I. Güerere. 2008. Changes in physical, chemical and biological parameters in soils of a savanna protected from burning and grazing for 25 years. *Bioagro* 20(3): 151-158.
- **17.- Hernández-Valencia, I.** 2008. Evaluation of phosphoric fertility in different production systems located in well-drained savannas in Venezuela through fractionation techniques. *Acta Biológica Venezuelica* 28(1): 57-68.
- **18.-** Barreto, M.B., Bonilla, A., Castillo, M., González, L.A., Grande, J. R., Gutiérrez, M., **Hernández-Valencia, I.**, Hernández, N., López-Rojas, H., Machado Allison, A., Mogollón, L., Paredes, J. Quero, A., Ramos, A. y J. Velazquez. 2009. Comprehensive study of the Bajo Alcatraz-Mata Redonda-La Salineta lagoon system of the Paria Peninsula, Sucre State, Venezuela. *Geomorphology, Hydrology, Water Quality, Vegetation and Vertebrates*. *Acta Biológica Venezuelica* 29 (1-2): 1-59.
- **19.-** Infante, C., Ortega, C., Morales, F., Ehrmann, U., **Hernández-Valencia, I.** y Pérez, R. 2010. Effect of potassium in the bioremediation of a soil contaminated with light crude oil. *Bioagro* 22(2): 145-152.
- **20.-** Mager, D. y **I. Hernández-Valencia.** 2013. Microbial activity during the phytoremediation of a soil contaminated with a light crude oil. *Revista de la Facultad de Agronomía de la LUZ* 30 (1): 52-71.
- **21.** Martínez-Borges, J., Colombo, P. e **I. Hernández-Valencia.** 2014. Use of earthworm humus for the bioremediation of soils mixed with drilling cuttings impregnated with heavy crude oil. *Acta Biológica Venezuelica* 34 (2): 153-165.
- **22.** Urbina Barreto, I., **Hernández Valencia, I.**, Villamizar, E. y M. A. Álvarez. 2014. Concentrations of Pb, Cd, Ni, Cr and Cu in *Amphimedon viridis* and *Niphates erecta* (Haploscleridia: Niphatidae) in two environments of the Venezuelan Caribbean Sea. *Ecotrópicos* 27(1-2):31-39.
- **23** Medina, E., Velasquez, G. e **I. Hernández Valencia.** 2016. The impact of global warming and CO2 enrichment on agricultural crops. *Revista de la Facultad de Agronomía UCV* 42 (1): 25-37.
- **24.** **Hernández Valencia, I.**, Lárez, L. M. y J. V. García. 2017. Evaluation of the toxicity of a soil contaminated with different types of crude oil on the germination of two tropical grasses. *Bioagro* 29(2): 73-82.
- **25.** **Hernández Valencia, I.**, Navas, G. y C. Infante. 2017. Phytoremediation with *Megathyrsus maximus* of a soil contaminated with heavy crude oil. *Revista Internacional de Contaminación Ambiental* 33(3): 495-503.

- 26. Zamora, A., Ramos, J., Arias, M. e **I. Hernández Valencia** 2017. Response of the microbial community to the biotreatment of a soil contaminated with a light crude oil. *Revista Internacional de Contaminación Ambiental* 33(4): 629-639.
- 27. **Hernández Valencia, I.**, Guitián, D y V. González. 2017. Effects of seed size and endocarp scarification on the germination of *Mauritia flexuosa* L. f. *Acta Botánica Venezuelica* 40 (1): 97-118.
- 28. **Hernández Valencia, I.**, Malaver, N., A. Zamora y V. González. 2017. Plants associated with contaminated soils adjacent to oil pits located in the eastern Venezuelan plains. *Acta Botánica Venezuelica* 40(1): 31-51.
- 29. Marquez, M., Cáceres, A., **Hernández Valencia, I.** y L. Romero. 2019. Mycorrhizal parameters and soil quality in native potato crops and introduced potatoes in the Venezuelan Andes. *Acta Biologica Venezuelica* 39(1): 91-105.
- 30. **Hernández Valencia, I.** 2019. Impact of anthropic activities on soil microbiological and biochemical parameters: three case studies. *Acta Biologica Venezuelica* 39(1):73-90.
- 31. **Hernández Valencia, I.**, Guitián, D. y V. González. 2020. Evaluation of the toxicity of soils contaminated with heavy oil on seedlings of *Mauritia flexuosa* L.f. *Bioagro* 32 (2):117-122.
- 32. Sierralta, D., Cáceres, A., **Hernández Valencia, I.**, Gajardo, R., Cáceres Mago, K. y A. Rodríguez. 2020. Effect of revegetation with the native species *Piscidia carthagenensis* JACQ. on soil quality in a tropical dry forest intervened by sand extraction. *Multequina* (In press).
- 33. Zamora Figueroa, A., Malaver, N. e **I. Hernández Valencia**. 2020. Microbial functional diversity and biogeochemistry in the floodplain of the Mapire river (Anzoátegui state, Venezuela). *Acta Biológica Venezuelica* (In Press)

8.- CHAPTERS IN BOOKS

- 1.- Morales, L. G. e **I. Hernández**. 2004. Aspects of environmental economics related to the management of the Imataca Forest Reserve In: Imataca Forest Reserve: Ecology and technical bases for land use planning. Berroterán, J. L. (Ed.). Fundambiente Fondo Editorial, 123-144 pp.
- 2.-López-Hernández, D., López, A. Y., **Hernández-Valencia, I.**, Ojeda, A. y C. Hernández. 2006. Impact of organic fertilization on soil quality indicators in agroforestry farms located in the Venezuelan Amazon. In: Medioambiente en Iberoamérica. Visión desde la física y la química en los albores del siglo XXI. Tomo II. Gallardo Lancho, J. F. (Ed.) Diputación de Badajoz. Badajoz. España. Pp. 279-286.
- 3. López-Hernández, D. & **I. Hernández-Valencia**. 2009. Nutritional aspects in *Trachypogon* savannas as related to nitrogen and phosphorus cycling. In: Del Claro, K., Oliveira, P.S & V. Rico Gray (eds.). *Tropical Biology and Conservation Management - Volume X: Savanna Ecosystems*. Unesco. Eolss Publishers Co.. Ltd. Oxford, Reino Unido. pp 1-27.
- 4.- López-Hernández, D., Araujo, Y., **Hernández-Valencia, I.**, Hernández, C. Y A. Y. López-Contreras. 2009. Pedofauna biodiversity and soil indicators in an amazonian sandy savanna soil long term amended with low inputs of in situ produced compost. En: *Composting: Processes, Materials and Approaches*. Pereira, J. C. & J. L. Bolin (Eds.) Nova Publishers. Estados Unidos. Pp. 155-176.
- 5.- Infante, C., Morales, F., Ehrmann, U., **Hernández-Valencia, I.** & N. León. 2010. Hydrocarbon bioremediation and phytoremediation in tropical soils: Venezuela Case of Study. En: *Trends in Bioremediation and Phytoremediation*. Grazina Plaza (Ed). Research Signpost. pp. 429-451.
- 6.- López-Hernández, D. & **I. Hernández Valencia**. 2011. P cycling and biogeochemistry in well drained and flooded Venezuelan savannas. In: *Horizons in Earth Science Research*. Volume 4. Benjamin Veress and Jozsi Szigethy (eds.). Nova Science Publisher Inc. Pp. 99-126.
- 7. **Hernández-Valencia, I.**; Pérez, M.; y M. Lisena. 2011. Soil quality in rehabilitated areas of a bauxite mine. In: *Development of strategies for the recovery of degraded tropical ecosystems*. Herrera, F. e. I. Herrera (Eds.). IVIC. Caracas. Pp. 165-175.
- 8. Infante C., **Hernández-Valencia, I.**, López, L. and M. Toro. 2012. Phytoremediation of petroleum hydrocarbon contaminated soils in Venezuela. In: *Phytotechnologies: Remediation of Environmental Contaminants*. Anjum. N A., Ahmad, I., Duarte, A, C., Umar, S., Khan, N. A. and E. Pereira (Eds.). CRC Press. Boca Ratón. USA. pp. 99-112.
- 9. López-Hernández, D., Hernández-Hernández, R. M., **Hernández-Valencia, I.** y M. Toro. 2014. Nutritional stress in dystrophic soils of the Orinoco basin. In: *Physiological*

Mechanisms and Adaptation Strategies in Plants under Changing Environment. Volume I: Biological techniques. Academic Press. San Diego. pp. 343-375.

- **10.** Vessuri, H., Sánchez-Rose, I., **Hernández-Valencia, I.**, Bravo, L e I. Rodríguez. 2014. Knowledge inequalities and strategies to reduce asymmetries: The field of shared work and interdisciplinary negotiation. *desiguALdades.net*. Working Paper Series. *desiguALdades.net*. International Research Network on Interdependent Inequalities in Latin America
- **11.** Bandrés, T.A., Rodríguez, J. P e **I. Hernández-Valencia**. 2015. Environmental research and its areas of study In. Machado-Allison, A. y R. Buróz (Eds.). *Desarrollo de los estudios ambientales en Venezuela 2002-2012*. Academia de Ciencias Físicas, Matemáticas y Naturales. Pp. 109-118.
- **12.** **Hernández-Valencia, I.**, Rodríguez, J. P., Villamizar, A., Salcedo, J.A y J. Duque. 2015. Dissemination of environmental scientific knowledge in Venezuela (2002-2012). In. Machado-Allison, A. y E. Buróz (Eds.). *Desarrollo de los estudios ambientales en Venezuela 2002-2012*. Academia de Ciencias Físicas, Matemáticas y Naturales. pp. 251-382.
- **13.** **Hernández-Valencia, I.**, González-Boscán, V., Zamora-Ledezma, E., Carrillo-Carrillo, V and Zamora-Figueroa, A. 2018. Environmental Impacts of the Oil Industry on the *Mauritia flexuosa* Swamp Palm Groves (Morichales) in Venezuela. . In: *Oil contamination: Impacts and offsets*. Emilio Potter y Alyssa Vega (eds.). Nova Science Publisher Inc. Pp. 33-72.
- **14.** Lobo, D., Lozano, Z., Toro, M., **Hernández Valencia, I.** and J. C. Rey. (In Press). Soil biodiversity under different uses and managements in Venezuela. IUSS.
- **15.** Zamora Figueroa, A., **Hernández Valencia, I.** y N. Malaver. (In Press). Efecto de la contaminación producida por fosas petroleras sobre la riqueza florística, características fisicoquímicas del suelo y actividad microbiana en sabanas de Venezuela. Universidad La Salle, México.

8.- PROCEEDINGS IN SCIENTIFICS EVENTS

- **1.- Hernández-Valencia, I.** y López-Hernández, D. 1997. Distribution of phosphorus in a *Trachypogon* savanna of the Central High Plains. *Memorias del XIV Congreso Venezolano de la Ciencia del Suelo*. Disco compacto DL N° FR-2529710.
- **2.-** López-Hernández, D.; Araujo, Y. López, Ana e **I. Hernández Valencia**. 1999. Physical, chemical and earthworm population changes induced by organic fertilization in sandy savanna soils of the Venezuelan Amazon. *Memorias del XIV Congreso latinoamericano de las Ciencias del Suelo*. Pucón. Chile. Disco Compacto.
- **3.- Hernández-Valencia, I.** y D. López-Hernández. 2000. Seasonal changes in soil organic phosphorus content and phosphatase activity in a *Trachypogon* savanna. *Procc. International Symposium Soil functioning under pastures in intertropical areas*. Disco Compacto.
- **4.- Hernández-Valencia, I.** y D. López-Hernández. 2000. Pérdidas de nutrimentos por quema de vegetación en una sabana tropical. *Procc. International Symposium Soil functioning under pastures in intertropical areas*. Disco Compacto.
- **5.-** López-Hernández, D.; Araujo, Y.; López, A.; **Hernández-Valencia, I** y M. Guadilla García. 2000. Organic agroforestral farms in the ecotono savanna-forest of venezuelan amazonia: a sustainable system? *Procc. International Symposium Soil functioning under pastures in intertropical areas*. Disco Compacto.
- **6.- Hernández-Valencia, I.**, Hernández-Hernández, R. M., Lozano, Z. Y C. Bravo. 2004. Phosphorus fractions in savanna soils under different associations of corn and grass. *Memorias XVI Congreso Latinoamericano de la Ciencia del Suelo*. Disco compacto.
- **7.-** Hernández-Hernández, R. M., **Hernández-Valencia, I.**, Raubuch, M., Lozano, Z., Castro, I.. 2005. Impact of deforestation and strawberry cultivation systems on the microbial biomass of soils in Colonia Tovar. *Memorias del XVI Congreso Venezolano de la Ciencia del Suelo*. Disco Compacto.
- **8.- Hernández-Valencia, I.** y M. Bautis. 2005. Changes in soil phosphorus fractions due to the conversion of savannas into pine forests. *Memorias del XVI Congreso Venezolano de la Ciencia del Suelo*. Disco Compacto.
- **9.** Silva, M., Torres, A., Rivero, V. e **I. Hernández-Valencia**. 2007. Effect of the use of covers on the phosphorus fractions of greater availability in different aggregates of a soil of the Guárico state. *Memorias del XVII Congreso Latinoamericano de la Ciencia del Suelo*. Disco Compacto.

- **10.** Oyarzun, C, **Hernández-Valencia, I.** y M. Arias. 2009. Use of microbiological activity indicators to evaluate the toxicity in the soil of a new fuel constituted by an emulsion of water in diesel. Memorias del XVIII Congreso Venezolano de la Ciencia del Suelo.
- **11.** Pedraza, E., Zambrano, E., Méndez, C., Flantúa, S., **Hernández-Valencia, I.** y B. Bilbao. 2009. Soil types and land uses in Kamarata, Canaima National Park, Edo. Bolívar, Venezuela. Memorias del XVII Congreso Venezolano de la Ciencia del Suelo. Disco Compacto.
- **12.** Rivero, V., Silva, M., Torres, A. e **I. Hernández-Valencia.** 2009. Effect of the use of covers on the most recalcitrant fractions of phosphorus in a soil of the Guárico state, Venezuela. Memorias del XVIII Congreso Latinoamericano de la Ciencia del Suelo. San José. CD. Compacto}.
- **13.** Petralanda, I., Romero, J., González, F., Fernández, M., Taisma, M.A., Valls, J., Ramos, H., **Hernández Valencia, I.** Alonso, G. New curricular design of the School of Biology, Faculty of Sciences, Central University of Venezuela: Socio-educational, competency and disciplinary foundations. Memorias VIII Reunión Nacional de Currículo y II Congreso de Calidad e Innovación en la Educación Superior.
- **14.-** Romero, L. e **I. Hernández-Valencia.** 2011. Changes in the chemical fertility of a savanna soil after ten years of its afforestation with *Acacia mangium*. Memorias del XiX Congreso Venezolano de la Ciencia del Suelo. Disco Compacto.
- **15.-** Romero, L. e **I. Hernández-Valencia.** 2012. Changes in soil carbon after afforestation of a Venezuelan savanna with *Acacia mangium*. Memorias del XIX Congreso Latinoamericano de la Ciencia del Suelo y XXIII Congreso Argentino de la Ciencia del Suelo.
- **16.-** Salazar, R., Bilbao, B., Millán, A., Zambrano, E. e **I. Hernández-Valencia.** 2012. Effects of Pemón agricultural practices on the soils of Kavanayen-Gran Sabana. Memorias del XIX Congreso Latinoamericano de la Ciencia del Suelo y XXIII Congreso Argentino de la Ciencia del Suelo.
- **17.** Navas, G., **Hernández-Valencia, I.** y C. Infante. Evaluation of the phytoremediation capacity of *Panicum maximum* in a savanna soil contaminated with an extra heavy oil. Memorias del XXI Congreso Venezolano de la Ciencia del Suelo. Disco Compacto.
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2005

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- 97. Site selection study for the sanitary landfill in the town of Guiria, Edo. Sucre. Developer: PDVSA. Contractor: UCV Foundation.
- 98. Systemic evaluation of socio-environmental conditions in a production area of the San Tomé District, Oriente Division. Developer: PDVSA. Contractor: UCV Foundation.
- 99. Environmental Impact Study for 30 exploratory wells in the SincorPromotor Block: Sincor. Contractor: Ecoproyectos.
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- 108. Environmental Impact Assessment of the Ayacucho Block 2. Promoter: PDVSA. Contractor: Hidroambiente Proyectos.
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2008

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- 117. Environmental and sociocultural diagnosis of the San Tomé Oil District. Developer: PDVSA. Contractor: FundaUCV.
- 118. Environmental Impact Study of the PDVSA Industrial Headquarters Building, located in Biruaca, Edo. Apure. Contractor: Reif Consultores Asociados. Developer: PDVSA Industrial.
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- 123. Environmental and Sociocultural Impact Study of the Project –Urban Development of the Aguada Environmental and sociocultural impact assessment of the Las Catas limestone mine. Promoter: Inversiones Las Catas, Contractor: Reif Consultores Asociados Charatuy C.A. Contractor: NHConsultores.

2009

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- 125.- Environmental and sociocultural diagnosis of the Junín Block. Developer: PDVSA. Contractor: FundaUCV.
- 126. Detailed engineering for the expansion of the Cardón HDS unit. Promoter PDVSA Manufacturing and Marketing. Contractor: Y & V Construcciones.
- 127.- Basic Engineering New Butane Butylene Hydroisomerization Unit, Promoter PDVSA. Contractor: Y & V Construcciones.
- 128.- Environmental and Sociocultural Impact Assessment for the use of water resources at the Villa de Cura Plant. Developer: Pepsi-Cola Venezuela C.A. Contractor: Hidroambiente.
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- 132. Environmental Impact Assessment Construction of the Educational Unit "Creation Tapipa". Acevedo Municipality, José Félix Ribas Parish, Edo. Miranda. Promoter: INFRAMIR Government of Miranda State, Contractor: EIACA.

2010

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- 134. Environmental Impact Study for the Construction of the new Carenero Yatch Club docks, Carenero, Edo. Miranda. Promoter: Carenero Yatch Club, Contractor: Planigestion.

- 135. Preliminary Environmental Assessment Palital and its area of influence. Developer: PDVSA Industrial,

2011

- 136. Strategic Environmental Management Plan. Promoter: Corpoelec. Contractor: Venezuelan Center for Cleaner Production.
- 137. Environmental and Socio-Cultural Impact Assessment of the Gas Quality Project for the Internal Market. Promoter: PDVSA, Contractor: Y & V Construcciones C.A.
- 138. Environmental and Socio-Cultural Impact Assessment of the Pirital I Extraction Plant. Promoter: PDVSA, Contractor: Y & V Construcciones C.A.
- 139. Environmental and Sociocultural Impact Assessment for the shipyard del Alba Project. Edo. Sucre. Developer: Constructora Andrade Gutiérrez. Contractor: Hidroambiente.
- 140. Expansion of the processing capacity of the Monagas Operational Center. Promoter: PDVSA, Contractor: Y & V Construcciones C.A.
- 141. Visualization of the Orinoco Oil Belt- Analysis of route options for the pipeline between EPT1 - O16 - J20II. Promoter: PDVSA, Contractor: Y & V Construcciones C.A.
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- 146. Environmental and Sociocultural Impact Assessment of the project 'Oleoducto 42 "MOR-PTO' Promoter: Faja Major Projects Management, PDVSA Ayacucho Division Contractor: Hidroambiente.

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- 148. Environmental and Sociocultural Impact Assessment of the project for the Extension of Boyacá Avenue (Cota Mil) to Distribuido Macayapa and Extension of the Tacagua Viaduct: Basic Studies, Promoter: PDVSA Ingeniería y Construcción. Contractor: Geohidra Consultores C.A.
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- 153. Environmental and Sociocultural Impact Assessment of the University of Indigenous Peoples Project, Puerto Ayacucho, Amazonas State. Promoter: Fundación Pro Patria 2000. Contractor: Reif Consultores C.A.

- 154. Environmental and Sociocultural Impact Assessment of the Zuata 11 M 3D 3C Seismic Survey Project Joint Venture PetroJunín Guárico State and Anzóategui. Promoter: PDVSA Petrojunín. Contractor: Global Consulting.

2013

- 155. Estudio de Impacto Ambiental y Sociocultural del proyecto de construcción de la prolongación de la Avenida Boyacá (Cota Mil). Promotor: PDVSA Ingeniería y Construcción. Contratista: Geohidra Consultores C.A.
- 156. Route analysis of the Arichuna-Guarenas gas pipeline. Promoter: PDVSA Engineering and Construction. Contractor: Y & V Ingeniería y Construcción C.A.
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- 158. Route analysis of the BARED-San Diego de Cabrutica gas pipeline. Promoter: PDVSA Engineering and Construction. Contractor: Y & V Ingeniería y Construcción C.A.
- 159. Environmental and Sociocultural Impact Assessment of the BARED-San Diego de Cabrutica gas pipeline. Promoter: PDVSA Engineering and Construction. Contractor: Y & V Ingeniería y Construcción C.A.
- 160. Route analysis of the Figueroa-Tacoa gas pipeline. Promoter: PDVSA Engineering and Construction. Contractor: Y & V Ingeniería y Construcción C.A.
- 161. Environmental and Sociocultural Impact Assessment of the Figueroa-Tacoa gas pipeline. Promoter: PDVSA Engineering and Construction. Contractor: Y & V Ingeniería y Construcción C.A.
- 162. Environmental and Sociocultural Impact Assessment Reconditioning of the platforms of the stratigraphic wells TX01, TX02 and SDZ180 and expansion of the JD tiller. Promoter: Joint Venture Petrocedefío. Contractor: Global Consulting.
- 163. Physical, chemical and bacteriological analysis of water, effluent and sediment samples at the PSSA plant in the Jose Industrial Condominium, Anzóategui State. Promoter: Petrolera Sinovensa Contractor: Friends of the Faculty of Sciences Foundation.
- 164. Professional Services for the Environmental Audit of the Area corresponding to the Petrojunín Joint Venture - Orinoco Oil Belt. Promoter: Joint Venture Petrojunín. Contractor: Geohidra Consultores..
- 165. Environmental and Sociocultural Impact Assessment (EIASC) of the Project "Construction and start-up of nine clusters in the Junín 2 Block with its producing wells, access roads and service corridors. Promoter: Empresa Mixta Petromacareo S.A. Contractor: Geohidra Consultores.
- 166. Environmental and Sociocultural Impact Assessment (EIASC) of the Project "Construction and Commissioning of the Junín 2 Block Flow Station, access roads and service corridors associated with four Macollas Promoter: Empresa Mixta Petromacareo S.A. Contractor: Geohidra Consultores.

2014

- 167. Environmental and sociocultural impact assessment of the Urban Design project for the Chaguaramas town center, Monagas State. Promoter PDVSA. Contractor: Nouel Ingenieros.
- 168. Environmental and Socio-Cultural Impact Study regarding the construction and operation of the "National Experimental Polytechnic University of the Armed Forces –UNEFA- Puerto Píritu", Edo. Anzoátegui. Promoter: PDVSA – UNEFA, Contractor: OFC Proyectos.
- 169. Spill management plan for MED-20 stations. MEF-19, MEF-29. MEF-30 and MEF-31 from the Melones field. Promoter: PDVSA, Contractor: Global Consulting.
- 170. Environmental and Sociocultural Impact Assessment of the seismic survey of Campo el Salto Sur, Monagas State. : Petro Delta Company. Contratita: Geohidra Consultores.
- 171. Environmental and Sociocultural Impact Assessment of the seismic survey of Campo el Salto Este, Monagas State. : Petro Delta Company. Contratita: Geohidra Consultores.
- 172. Environmental and Sociocultural Impact Assessment of the Conceptual and Basic Engineering for Petrouirica's Superficial Production Facilities - Junín Block 4. Promoter: Empresa Mixta Petrouirica. Contractor: Y&V Construcción e Ingeniería C.A.
- 173. Environmental Impact Assessment for the Project "Conceptual and Basic Engineering for the Petromiranda Surface Production Facilities - Junín 6 Block. Promoter: Petromiranda Mixed Company. Contractor: Y&V Construcción e Ingeniería C.A.

- 174. Environmental supervision plan for the 36 'pipeline and the 24' Petrojunín diluent. Promoter: Joint Venture Petrojunín. Contractor: Y&V Construcción e Ingeniería C.A.
- 175. Environmental and Sociocultural Impact Assessment for the N3 and M4 Makiritare and five stratigraphic wells. Promoter: PDVSA, Contractor: Global Consulting.
- 176. Environmental and sociocultural impact assessment of the Charallave Sur interchange, Cristobal Rojas Municipality. Miranda State. Promoter: Camargo Correa, Contractor: Global Consulting.
- 177. Environmental and sociocultural impact assessment of the Abastos Bicentenario construction, Cristobal Rojas Municipality. Miranda State. Promoter: Camargo Correa, Contractor: Global Consulting.

2015.

- 178. Environmental and sociocultural impact assessment of the ferry dock terminal in Carenero, Miranda state. Promoter: Bolivariana de Puertos, Contractor: Incostas S.A.
- 179. Environmental and Sociocultural Impact assessment of the 3D 3C Seismic Survey Project of the Carabobo 2 S, Carabobo 3 N and southern Sinovensa blocks. Promoter: Empresas Mixtas Petroindependencia, Contractor: Arborea Consultores Ambientales.
- 180. Environmental and Socio-Cultural Impact Assessment of the Carabobo 5, Carabobo 2 S and Carabobo 3N Blocks Service Corridor Project. Promoter: Empresas Mixtas Petroindependencia, Contractor: Arborea Consultores Ambientales.
- 181. Environmental and sociocultural impact assessment of the expansion of the Francisco Fajardo highway. Caracas. MPPT promoter.
- 182. Environmental and sociocultural impact assessment of the construction of the north access distributor, Urdaneta Municipality, Miranda State. Promoter: Camargo Correa. Contractor: Global Consulting GB.
- 183. Environmental and sociocultural impact assessment of the expansion of the Diego de Lozada substation. Promoter: Camargo Correa. Contractor: Global Consulting GB.
- 184. Environmental and sociocultural impact assessment of the implementation of the Caujarito-Santa Teresa adduction. Promoter: Camargo Correa. Contractor: Global Consulting GB.
- 185. Environmental audit of facilities. Ripe fields Crumb and Melons. Promoter. Venangocupet. Contractor. Global Consulting GB.
- 186. Environmental and sociocultural impact assessment Construction of the Waraira Repano Station - El Cojo Station Cable Car System. Promoter. Mintur. Contractor. Arborea Environmental Consultants.
- 187. Environmental and socio-cultural impact assessment of the eastern highway. MPPTT. Contractor. RGR Engineering.
- 188. Analysis of route options for internal corridors between tillers and CPF- Early Production - Block C-2N. Promoter Petrovictoria. Cotratista: Y and V Engineering and Construction.
- 189. Analysis of route options for export and import corridors - Block C-2N of PetroVictoria. Cotratista: Y and V Engineering and Construction. Promoter Petrovictoria. Co-owner: Y and V Engineering and Construction.
- 190. Analysis of location options CPF - Block C-2N of PetroVictoria. Promoter Petrovictoria. Cotratista: Y and V Engineering and Construction. Promoter Petrovictoria. Cotratista: Y and V Engineering and Construction.
- 191. Analysis of location options CPF - Block C-4O of PetroVictoria. Promoter Petrovictoria. Cotratista: Y and V Engineering and Construction.
- 192. Tilling Location Evaluation in Blocks C-2N and C-4O of PetroVictoria. Promoter Petrovictoria. Cotratista: Y and V Engineering and Construction.

2016

- 193. Environmental and Sociocultural Impact Study Directional Drilling Project and replacement in sections of Segments 2 and 3 of the Submarine Cable, Punta Gorda, Vargas state. Contractor: Proconsult C.A. Contractor: GlobeNet Cabos Submarinos VZLA, S.A.
- 194. Environmental and socio-cultural impact study for the construction of tiller C-2N-01 in block C-2N of Petrovictoria. Promoter Petrovictoria. Cotratista: Y and V Engineering and Construction.

- 195. Environmental and sociocultural impact Assessment for the construction of the C2N-02, C2N-03, C2N-04, C2N-05 and CM-08 clusters of Petrovictoria. Promoter Petrovictoria. Cotratista: Y and V Engineering and Construction.
- 196. Environmental and sociocultural impact study of the bridge over the Yabo river for the Ø 30 "and Ø 8" pipelines to tiller 14 of the Petromonagas Operational Center (COPEM). Promoter Petromonagas. Cotratista: Y and V Engineering and Construction.
- 197. Environmental and sociocultural impact study of the electromechanical works component of the Waraira Repano-El Cojo cable car system. Promoter; Ventel. Contractor: Arborea Consultores Ambientales.

2017

- 198. Environmental and sociocultural impact study Project Construction of the patio, workshops and warehouses in the town of San Felipe, Yaracuy state. Developer: Yutong, Contractor: Proconsult.
- 199. Services for updating PETROCEDEÑO's environmental supervision plan. Promoter; Petrocedeño. Contractor: Y / V Engineering and Construction.
- 200. Environmental and sociocultural impact study of the Caracas Cable Car System operation: Mariperez Station - Waraira Repano Station - El Cojo Station. Promoter; Ventel. Contractor: Arborea Consultores Ambientales.
- 201. Environmental Restoration of the Litoral Waraira Repano-Macuto Cable Car System Project. Promoter; Ventel. Contractor: Arborea Consultores Ambientales.
- 202. Environmental and Socio-Cultural Impact Assessment of the Construction of a bridge over the Guaire River at the height of Pte Veracruz located between the Baruta and Chacao municipalities of Edo Miranda. Developer: MPPTOP. Contractor: Silmar C.A.

2018

- 203. Environmental Impact Study and Socio-Cultural of the Puerta del Sol Development. Promoter; Puerta del Sol Development- Contractor: Proconsult C.A.
- 204. Prevention of Social Conflicts in the use of natural resources: Development of Strategic Guidelines for Remediation of the Impacts of Petroleum Operations in Former Block 1 AB in Loreto, Peru. Promoter: Ministry of Energy and Mines of Peru. Contractor: United Nations Development Program (UNDP).

2019

- 205. Definition of the required activities (scope of work) for the cleaning and remediation of the hydrocarbon spill that occurred in Petrocedeño on May 24, 2019, Promoter: Equinor. Contractor: Vepica

2020

- 206. Characterization for the conservation of priority ecosystems and land uses in the Orinoco Oil Belt in promoting the sustainable development of the oil industry. Promoter: Total. Contractor: Sigma Laboratory, Department of Environmental Studies. USB

14.-DISERTATIONS:

- 1.- Hernández-Valencia, I. 1983. Effect of acid rain on continental aquatic ecosystems. Faculty of Sciences. Universidad Central de Venezuela. 37 p.
- 2.- Hernández-Valencia, I. 1985. Contribution to the study of the carbon balance in the soil in a sugarcane crop. Disappearance of roots, disappearance of litter and soil respiration. Bachelor's Thesis. Faculty of Sciences. Universidad Central de Venezuela. Caracas. 91 p.
- 3.- Hernández-Valencia, I. 1996. Phosphorus dynamics in a *Trachypogon* savanna of the Central High Plains. Doctoral Thesis. Faculty of Sciences. Universidad Central de Venezuela. 179 p.

15.- RESEARCH PROJECTS

- 1.-Project CENAZUCA: Analysis of the limiting factors of sugar production in the area of influence of the Central Río Yaracuy, Yaracuy State. 1985. Responsable. Danilo López-Hernández.
- 2.- Project Conicit S1-2164: Changes induced in savanna soils as a result of agronomic management. 1996. Responsable Danilo López-Hernández.
- 3.- Project Conicit RP-VII-290089: Low input agriculture in the forest-savanna ecotone as a means of reducing pressure on the tropical rainforest. 1996. Responsable Danilo López-Hernández.
- 4.-CDCH N° 03.31.3651.95. Soil-vegetation relationships in Uverito, Edo. Monagas.

- 5.- Project CDCH 03—31-4109-98. Study of the solubilization, mineralization and phosphorus uptake processes in Venezuelan savannas. 1998. Responsable Marcia Toro.
- 6.- Project Intevep-IZT. Evaluation of phosphate rock as an alternative source of biofertilizer in the bioremediation process of oil-based gravel. 2000. Responsable: Ismael Hernández Valencia.
- 7.-Project Intevep. Evaluation of plants with the capacity to degrade or incorporate hydrocarbons into their tissues 2000. Responsable: Ismael Hernández Valencia.
- 8.- Project Intevep IZT. Effects of spills of a microemulsion of water in diesel on chemical, biochemical and microbiological parameters of soils and on physiological parameters and biomass production of *Zea mayz*. 2002. Responsable: Ismael Hernández Valencia.
- 9.- Project CDCH-UCV: PI.03-31-5109-2003. Changes in biochemical and microbiological parameters produced by itinerant agriculture in the Amazon forest ", Responsable: Ismael Hernández Valencia.
- 10.- Project. FundaUCV-MARNR Reserve Forestry Imataca: Ecology and technical bases for land use planning 2004. Responsable: José Luis Berroterán.
- 11.- Project PDVSA. Systemic evaluation of the socio-environmental conditions of the San Tomé District, East Division. PDVSA. 2007. Responsable Nora Malaver.
- 12.- Project PDVSA. Systemic evaluation of the socio-environmental conditions of the Junín Block of the Orinoco Oil Belt, Scale 1: 100,000. PDVSA. 2008. Responsable Nora Malaver.
- 13. Project Intevep. Morichales de los llanos central-eastern Venezuelans: biological, ecological and socioeconomic aspects and guidelines for the prevention, control and mitigation of the impacts produced by the oil industry. Intevep, Center for Ecology and Environment. 2009. Responsable: Ismael Hernández Valencia.
- 14. Project Misión Ciencias-Fonacit. Development, validation and transfer of technologies for the environmental remediation of liabilities generated by oil activity: Ecological restoration in sectors with environmental liabilities related to oil pits and heavy metals. Responsable: Nora Malaver. 2010.
- 15.- The Nature Conservation (TNC) No. VEAM-0001 con FUNINDES_USB. Conservation of biodiversity and sustainable use of natural resources in Pemón habitats 2010.
- 16.- Project Fonacit No. G---2005000514. Risk Factors in the Reduction of Habitats in Canaima National Park: Vulnerability and Tools for sustainable development ". 2010 .
- 17. Project MCTI. Evaluation of carbon sequestration in the soil by afforestation of savannas.2014

16.- STUDENT TUTORING

Undergraduate students

- 1.- **Ana Y. López Contreras**. 1996. Phosphorus fractionation in savanna soils subjected to different organic and inorganic production systems, located near Puerto Ayacucho, Edo. Amazon. School of Biology. Faculty of Sciences. Universidad Central de Venezuela.
- 2,- **Leonor Fernández**. 1997. Characterization of the soils of a bioclimatic sequence on the northern slope of the Cordillera de la Costa and its relationship with the vegetation. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. With Jose Luis Berroterán (UCV)
- 3.- **Montserrat Bautis**. 1999. Changes in phosphoric fertility induced by the establishment of pine plantations on savanna soils. Uverito. Monagas State. School of Biology. Faculty of Sciences. Universidad Central de Venezuela.
- 4.- **Adriana Campos**. 1999. Effect of sowing *Pinus Caribea* L. On organic matter fractions of a savanna soil. Uverito Edo. Monagas. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. With Rosa Mary Hernández (USR).
- 5.- **Julio Blones**. 2000. Study of the solubilizing and capturing rhizospheric microflora of phosphates in contrasting ecosystems. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. With Marcia Toro. (UCV)
- 6.- **Denise Mager**. 2002. Evaluation of the capacity of tropical grasses to phytoremediate soils contaminated with petroleum hydrocarbons. School of Biology. Faculty of Science. Universidad Central de Venezuela.

- 7.-**Juan Carlos Santander Torres**. 2004. Changes in the distribution of stable aggregates, light fraction of organic matter and root biomass in grassland soils subjected to organic and inorganic fertilization. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. With Rosa Mary Hernández (USR).
- 8. **Carla Oyarzum**. 2006. Effects of spills of micro and macroemulsions of diesel in water on the microbial activity of the soil. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. With Marianela Arias. Intevep.
- 9. **José Martínez**. 2007. Use of earthworm humus as an organic conditioner for the bioremediation process of soils mixed with mineral oil-based drilling cuttings impregnated with heavy crude oil. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. With Pedro Colombo. Intevep.
- 10. **Derek Angulo**. 2007. Use of dehydrated hemoglobin as a source of nutrients in the bioremediation of savanna soils contaminated with diesel. School of Biology. Faculty of Science. Universidad Central de Venezuela. With Carlos Rocha. USB.
- 11. **José Ramón Grande**. 2007. Ecological study of the savannas of “El Picacho” hill (Santiago Mariño Municipality, Aragua State, Venezuela). School of Biology. Faculty of Sciences. Universidad Central de Venezuela. With Valois González.
- 12. **Lenny Romero**. 2010. Changes in soil carbon after afforestation with *Acacia mangium*, in a Venezuelan savanna. School of Biology. Faculty of Sciences. Universidad Central de Venezuela.
- 13.- **Isabel Urbina**. 2010 Evaluation of the concentrations of Pb, Cd, Ni, Cr and Cu in *Amphimedon viridis* and *Niphates erecta* in contrasting environments with respect to anthropic impact. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. In co-tutoring with Estrella Villamizar.
- 14.- **Daniel Guitián**. 2011. Effect of heavy oil contamination in the soil on the germination and survival of *Mauritia flexuosa* L.f. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. In co-tutoring with Valois González.
- 15.- **Ruth Salazar**. 2011. Effect of Pemón itinerant agriculture on the physicochemical properties of soils in Kavanayen-Gran Sabana. Biology Coordination. Universidad Simón Bolívar. In co-tutoring with Bibiana Bilbao.
- 16. **Gabriela Navas**. 2012. Evaluation of the capacity of *Panicum maximum* Jacq to phytoremediate a savanna soil contaminated with extra heavy crude oil. School of Biology. Faculty of Sciences. Universidad Central de Venezuela.
- 17. **Luis Manuel Larez**. 2013. Study on the germination of seeds of *Megathyrsus maximus* (Jacq) B.K Simon & W: L Jacobs) and *Urochloa brizantha* (Hochs. Ex A. Rich) in soils contaminated with different crude oils. School of Biology. Faculty of Sciences. Universidad Central de Venezuela.
- 18. **Guillermo Méndez**. 2014. Evaluation of the phytoremediation capacity of *Megathyrsus maximus* in savanna soils contaminated with heavy hydrocarbons. School of Biology. Faculty of Sciences Universidad Central de Venezuela.
- 19. **Juan Groening**. 2015. Learning object for teaching soils and their structure, using artificial intelligence. School of Computing. Faculty of Sciences. Universidad Central de Venezuela. In co-tutoring with Antonio Silva Sprock.
- 20. **Jhon Suárez**. 2016. Evaluation of the phytoremediation of petrolized soils assisted with humic substances; Chemistry Coordination. Universidad Simon Bolivar. In co-tutoring with Úrsula Ehrmann.
- 21. **Maoly Marquez**. 2016. Mycorrhizal parameters and soil quality of native potato crops (*Solanum tuberosum* spp. Andigenum (Juz & Bukazov) Hawkes) and commercial potatoes (*Solanum tuberosum* spp. Tuberosum L) in the Venezuelan Andes. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. In co-tutoring with Alicia Cáceres.
- 22. **Grace Saturno**. 2017. Influence of two plant residues on the availability of water in the soil and implications in the biomass and morphology of the root of *Oyadaea verbesinoides* (Yellow Tara), Asteraceae. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. In co-tutoring with Noemí Chacón.
- 23. **David Sierralta**. 2019. Soil quality, mycotrophy and floristic composition in areas affected by sand extraction in the Macanao Peninsula, Nueva Esparta State. School of Biology. Faculty of Sciences.. Universidad Central de Venezuela. In co-tutoring with Alicia Cáceres

- 24. **Frank Zárraga.** 2019. Soil quality and mycotrophy in three agroecosystems with contrasting management of the Andean páramo de Mucuchíes. School of Biology. Faculty of Sciences. Universidad Central de Venezuela. In co-tutoring with Alicia Cáceres

Maestría

- 1. **Wence Herrera.** 2017. Evaluation of the bioremediation potential of *Brachiaria humidicola* (Rendle) Schweick. (1936) inoculated with arbuscular mycorrhizal fungi in soils contaminated with oil residues in the San Tomé sector, Edo. Anzoátegui. Venezuelan Institute of Scientific Research. In co-tutoring with Laurie Fajardo.

17.- THESIS ASSESSOR, SPECIAL DEGREE WORKS, PROMOTIONS AND OPPOSITION CONTESTS

Undergraduate

1. Universidad Central de Venezuela: 1) Yelinda Araujo, 2) Liris Gómez, 3) Marianela Stein, 4) Fernando Alessi, 5) Carolina Kalinhoff, 6) Ahren Estrada, 7) Maribel Ramos, 8) Alejandra Zamora, 9) Diamarys Domínguez, 10) Yurbis León, 11) Ubencio Reyes, 12) Milagros Rivas, 13) Luis Hernández, 14) Givonik Marrero, 15) Jorge Camacaro, 16) Juan Carlos Santander, 17) Susana Pinto, 18) Silvana Caipo, 19) Roberto Gil, 20) Karla Cáceres, 21) Omaira Pérez, 22) Yeznaret Arzelay, 23) María Marrero, 24) Mariana Vásquez, 25) Arnel Surbarán, 26) Norelia Linares, 27) Gladys Guarua, 28) Francisco Rotundo, 29) Omerlín Figueroa, 30) Pedro Pablo Gómez, 31) Ambar González..
2. Universidad Simón Bolívar: María Auxiliadora Díaz.

Master

1. Universidad Central de Venezuela: 1) Richard Elkhouri, 2) Raúl Albán.
2. Universidad Católica Andrés Bello: 1) Carmen Ortega.
3. Instituto Venezolano de Investigaciones Científicas: 1) Xioralbys Uzcátegui, 2) Rosa Ochoa, 3) Malfy Benitez.
4. Universidad Simón Bolívar: 1) Arneida Tarache.

PhD.

1. Universidad Central de Venezuela: 1) Clara Alarcón (P.G: Botánica), 2) Zenaida Lozano (P.G: Ciencias del Suelo), 3) Alicia Cáceres (P.G. Botánica), 4) Gioconda Briceño (P.G. Ecología), 5) Carmen Hernández (P.G. Ecología), 6) Edith Mora (P.G. Ecología), 7) Carolina Kalinhoff, 8) Carmen Mujica (P.G: Ciencias del Suelo), 9) Elizabeth Ramírez (P.G. Ecología), 10) Gerardo Romero (P.G: Ciencias del Suelo), 11) Ignacio Castro (P.G. Ecología), 12) Yuri Pardo (P.G: Ciencias del Suelo), 13) Karla Cáceres (P.G. de Botánica).
2. Instituto Venezolano de Investigaciones Científicas: 1) Noemí Chacón (P.G. Ecología), 2) Ana González-Pedraza (P.G. Ecología), 3) Sorena del Valle Marquina (P.G. Química Ambiental), 4) Rafael Boada (P.G. Química Ambiental), 5) Alessia Bastianioni (P.G. Ecología), Vanessa Quiñones. (P.G. Química Ambiental)
3. Universidad de Los Andes: 1) Dimas Acevedo (P.G. Ecología), 2) Daniel Machado (P.G. Ecología).
4. Universidad Simón Bolívar: 1) Carlos Méndez (P.G. Ciencias Biológicas), 2) Beatriz Pernía (P.G. Ciencias Biológicas).

Promotions

1. Universidad de Carabobo: 1) Rafael Rodríguez.
2. Universidad Simón Bolívar: 1) Fernando Morales.
3. Instituto Venezolano de Investigaciones Científicas: 1) Noemí Chacón.
4. Universidad Central de Venezuela: 1) Nora Malaver

Oppositions

1. Universidad de Carabobo. 1) Mario Palacios, 2) Rafael Rodríguez, 3) Sabina Caula.
2. Universidad Central de Venezuela: 1) Alejandra Zamora, 2) Luisa Villalba.

18. EVALUATION OF PROJECTS AND PUBLICATIONS

Nacionales: 1) Ecotrópicos (Sociedad Venezolana de Ecología), 2) Acta Biológica Venezolana (IZET-Universidad Central de Venezuela), 3) Revista de la Facultad de Agronomía (Universidad del Zulia), 4) Bioagro (Revista de la Facultad de Agronomía de la Universidad Centro Occidental Lisandro Alvarado), 5) Interciencia (Asociación Interciencia), 6) Ciencia (Revista de la Facultad Experimental de Ciencias, LUZ), 7) Revista de la Facultad de Ingeniería (Universidad del Zulia), 8) Venesuelos (Revista del Instituto de Edafología, Facultad de Agronomía, UCV), 9) Acta Botánica Venezolana (Revista de la Fundación Instituto Botánico de Venezuela), 10) Revista de la Sociedad Venezolana de Microbiología, 11) Consejo de Investigaciones Científicas y Tecnológicas (Conicit), 12) Fondo Nacional de Ciencia y Tecnología (Fonacit), 13) Consejo de Desarrollo Científico y Humanístico (CDCH-UCV), 14) Programa de Estimulo a la Investigación e Innovación (PEII) del Observatorio Nacional de Ciencia, Tecnología e Innovación (ONCTI) años 2015 y 2016, 15) Premio Arnoldo José Gabaldón 2019, Academia de Ciencias Físicas, Matemáticas y Naturales, 16) Observatorio de Ciencia y Tecnología (Revista del Ministerio de Ciencias y Tecnología), 16).

Internacionales: 1) Revista de Biología Tropical (Universidad de Costa Rica), 2) Chemosphere (Elsevier Publisher-Holanda), 3) Acta Biológica Colombiana (Universidad Nacional de Colombia), 4) Acta Agronómica (Universidad Nacional de Colombia), 5) Revista Ciencia y Mar (Universidad del Mar, Oaxaca, México), 7) Polibotánica (Instituto Politécnico Nacional, México), 8) Neotropical Biodiversity (Taylor & Francis/Senescyt-, Ecuador), 9) Acta Amazonica (Thomson Reuters, Brasil), 10) Experimentia IV (Argentina, Iadiza Conicet), 11) Forest Systems (CIFOR-INIA, España), 11) CEDAMAZ (Universidad de Loja, Ecuador), 12) Sociedad Iberoamericana y del Caribe de Restauración Ecológica (Libro de Resúmenes 2015), 13) Revista Mexicana de Ingeniería Química (Universidad Autónoma Mexicana, México), 14) Comisión Técnica Premios Latinoamérica Verde 2019 (Ecuador), 15) Libro Agrotecnologías, Universidad Técnica de Manabí, Ecuador, 16) Revista Mexicana de Ciencias Agrícolas (Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias), 17) Ecosistemas y Recursos Agropecuarios (Universidad Juárez Autónoma de Tabasco)

19. MEMBER OF SCIENTIFIC COMMITTEES AND / OR REVIEWER OF PAPERS FOR SCIENTIFIC MEETINGS.

1) XVII Congreso Venezolano de la Ciencia del Suelo (Santa Bárbara del Zulia 2008), 2) XIX Congreso Venezolano de la Ciencia del Suelo (Calabozo 2011), 3) XX Congreso Venezolano de la Ciencia del Suelo (Calabozo San Juan de los Morros), 4) XXI Congreso Venezolano de la Ciencias del Suelo (San Cristobal), 5) VIII Congreso Venezolano de Ecología (Coro 2008), 6) IX Congreso Venezolano de Ecología Margarita 2011), 7) Miembro del Comité Científico del XI Congreso Venezolano de Ecología (Porlamar 2015, 8) I Congreso Ecuatoriano de Restauración del Paisaje, 9) XXII Congreso Venezolano de Botánica (Maturín), .10) XXII Congreso Venezolano de la Ciencias del Suelo (Maracay 2018), 11) I, II, III, IV y V Simposio Venezolano de Restauración Ecológica (Caracas), 12). XII Congreso Venezolano de Ecología. Caracas 2019,

21.- MEMBERSHIPS

National: 1) Venezuelan Society of Ecology, 2) Venezuelan Society of Soil Science, 3) Venezuelan Association for the Advancement of Science

International: 1) Ibero-American and Caribbean Network for Ecological Restoration