EDUARDO PINHEIRO FERNANDEZ

Brazilian

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Short Biography

BSc in Biological Sciences from the University Santa Ursula - USU (2012). Eduardo has extensive field experience in botany and ecology throughout main Brazilian biomes. He is interested in biodiversity issues, plant diversity, distribution and biogeography of mountain ecosystems, as well as in its evolutionary history. Is also a former integrant of the data analysis and extinction risk assessment team in the Brazilian National Centre for Plant Conservation - CNCFlora. In parallel, he was also the coordinator of the priority areas for plant inventories and conservation in Brazil using the Rapid Assessment Program (RAP) framework in order to increase botanical knowledge in pristine and poorly scientifically known regions in Brazil. The most productive conservation units inventoried by these expeditions includes Parque Estadual da Serra do Aracá, Serra do Amolar e RPPN SESC Pantanal e Parque Nacional da Serra das Confusões, among others isolated areas. He was also the CNCFlora image database administrator. He is involved in the production scientific papers, reports, materials for dissemination and technical-scientific diagnosis on the flora at risk of extinction. Currently building his academic credentials through a M.Sc. in Plant Diversity at the University of Reading, Berkshire, UK, receving financial support toward living expenses and university fees from the Foreign and Commonwealth Chevening Scholarship, as well as academic supervision from the Royal Botanic Gardens, Kew and the Brazilian National Centre for Plant Conservation/ Rio de Janeiro Botanic Garden.

EDUCATION

• Bachelors Degree in Biological Sciences – University Santa Úrsula (USU) - *Rio de Janeiro, RJ (June 2012)*

EXTRACURRICULAR COURSES

• "Applying the International Union for Conservation of Nature (IUCN categories and criteria system (v. 3.1) framework for extinction risk assessments – Brazilian National Centre for Plant Conservation (CNCFlora)" CNCFlora (2010). Rio de Janeiro – RJ.

• "Historical biogeography". II Zoology Symposium University Santa Úrsula (2007). Rio de Janeiro, RJ.

• "Advanced General English course". Embassy CES (2007). Sydney, Australia

• "Advanced IELTS Exam Preparation". The British International School – The BIS, London, UK (2014)

PROFESSIONAL EXPERIENCE

❖ **Experience in Teaching**

Tutor - Subject: Basis of Biology II - University Santa Úrsula (2009)

❖ **Experience in research**

Internships, Scholarships and Grant for research:

• Project: Endangered Species of Flora – CNCFlora/JBRJ (From 2010-2015)

• Project: Floristic inventories in priority areas for research and conservation – CNCFlora/ JBRJ (From 2010-2015)

• Project: Checklist of plant species of the High-Altitude grasslands in the State of Rio de Janeiro - PIBIC/ ENBT. (2009 to 2012)

Development of technical reports and others:

- Technical Report: Economic Development and Conservation of Plant Diversity – Challenges for the Decade – MMA (2012)
- Technical Report: Process of Preparation of Proposal for a New National System for the Management of Endangered Species of Flora – MMA (2010)
- Technical Report: Proposal of the National Program for Research and Conservation of Mountain Ecosystems – CNCFlora/ SMA-MMA (2009)

Participation in Projects:

- Endangered Species of Flora – CNCFlora/JBRJ (From 2010 to 2015)
- Floristic inventories in priority areas for research and conservation – CNCFlora/JBRJ (From 2010 to 2015)

Project Coordination:

- Floristic inventories in priority areas for research and conservation – CNCFlora/JBRJ (From 2012 to 2015)

INTELLECTUAL PRODUCTION

Chapters in books:

- Chapter: Martinelli, G.; Maurenza, D.O.; Kutschenko, D.C.; Judice, D.M.; Silva, D.S.; Fernandez, E.P. et al. **Extinction Risks Assessments of the Brazilian plants *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Marchioretto, M.S.; Fernandez, E.P. et al**. Amaranthaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Dutilh, J.H.; Fernandez, E.P. et al. **Amaryllidaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Luz, C.L.S.; Pirani, J.R.; Valente, A.S.M.; Fernandez, E.P. et al. **Anacardiaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Rapini, A.; Koch, I. Valente, A.S.M.; Fernandez, E.P. et al. **Apocynaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Quinet, A.; Valente, A.S.M.; Fernandez, E.P. et al. Aquifoliaceae ***In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Fernandez, E.P.; et al. Arnelliaceae **Apocynaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Dittrich, V.A.O.; Valente, A.S.M.; Fernandez, E.P. et al. **Blechnaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)

- Chapter: Forzza , R.C.; Costa, A.F.; Leme, E.M.C.; Versieux, L.M.; Wanderley, M.G.L.; Louzada, R.B.; Monteiro, R.F.; Judice, D.M.; Fernandez, E.P. et al. **Bromeliaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Fernandez, E.P. et al. **Bruchiacae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Coelho, M.A.N.; Valente, A.S.M.; Oliveira, D.M.; Fernandez, E.P. & Penedo, T.S.A. **Clusiaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Fernandez, E.P. et al. **Dicranaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Fernandez, E.P. et al. **Ditrichaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Martinelli, G.; Judice, D.M.; Barros, F.S.M. & Fernandez, E.P. Ericaceae ***In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Secco, R.; Cordeiro, I.; Fernandez, E.P. et al. **Euphorbiaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Filardi, F.R.; Fernandez, E.P. et al. **Gelsemiaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Guimarães, E.F.; Fernandez, E.P. et al. **Gentianaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Judice, D.M.; Fernandez, E.P. et al. **Hedwigiaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Fernandez, E.P. et al. **Jungermanniaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Quinet, A.; Kutschencko, D.C.; Barros, F.S.M.; Moraes, M.M.V. & Fernandez, E.P. **Lauraceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Fernandez, E.P. et al. **Lepidoziaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Bovini, M.G.; Fernandez, E.P. & Barros, F.S.M. **Loasaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Cavalcanti, T.B.; Fernandez, E.P. et al. **Lythraceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Fernandez, E.P. et al. **Marchantiaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Costa, D.P.; Judice, D.M.; Fernandez, E.P. et al. **Metzgeriaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)

- Chapter: Lobão, A.Q.; Fernandez, E.P. & Pougy, N.M. **Myristicaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Neto, L.M.; Barros, F.B.; Vinhos, F.; Furtado, S.G.; Judice, D.M.; Fernandez, E.P. et al. **Orchidaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Judice, D.M.; Fernandez, E.P. et al. **Pallavicinaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Fernandez, E.P. et al. **Plagiochilaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Costa, D.P.; Fernandez, E.P. et al. **Pottiaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Filardi, F.; Venda, A.K.L.; Fernandez, E.P. et al. **Valerianaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter: Marquete,R.; Venda, A.K.L.; Fernandez, E.P. & Monteiro, N.P. **Salicaceae *In:* Martinelli, G. & Moraes, M.A. (org.) Red Book of the Flora of Brazil (*Livro Vermelho da Flora do Brasil*)** – CNCFlora/MMA/JBRJ (2013)
- Chapter:

Scientific papers published peer-reviewed journal:

- Fernandez, E., Moraes, M. & Martinelli, G. **New records and geographic distribution map of *Glaziophyton mirabile* Frachet, 1893 (Poaceae: Bambusoideae)**. Check List Journal 8(6): 1296–1298, 2012. (2012)

Summary of papers presented at scientific conferences:

- Fernandez, E., Moraes, M.A., Avancini, R.F. & Martinelli, G. **Flora do Parque Nacional da Serra das Confusões, (Flora of the National Park) Piauí, Brazil: biological richness and conservation**. 62º National Botanical Congress,Fortaleza – Ceará (2011).
- Fernandez, E. et al. **Painel Centro Nacional de Conservação da Flora (National Panel Center for Plant Conservation) – CNCFlora**. National Week of Science and Technology, Rio de Janeiro – RJ (2010).
- Fernandez, E., Serrano, T., Moraes, M.A. & Martinelli, G. **Flora fanerógama dos Campos de Altitude (Phanerogam flora of High-Altitude grasslands) of the state of Rio de Janeiro, Brasil**. 61º National Botanical Congress, Manaus – Amazonas (2010).
- Fernandez, E. Moraes, M.A., Martins, E. & Martinelli, G. **Lista das espécies vegetais dos Campos de Altitude (List of plant species of High-Altitude grasslands) of the state of Rio de Janeiro – preliminary results**. 60º National Botanical Congress, Feira de Santana – Bahia (2009).
- Fernandez, E. **Checklist das espécies vegetais dos Campos de Altitude (Checklist of plant species of High-Altitude grasslands) of the state of Rio de Janeiro – preliminary results.** XXVIII Botanists Regional Meeting – ERBOT: Mountains, research and conservation environments. Carangola – Minas Gerais (2008).

PARTICIPATION IN SCIENTIFIC EVENTS

- Coordinator of all the Brazilian Field Work of the SINERGIA Project (2014)
- Training Workshop for Data Analysis CNCFlora team (2013)

- National week of Science and Technology - Rio de Janeiro, RJ (2010)
- XVIII Institutional Seminar of Scholarships for Undergraduate Research– PIBIC/ CNPq. Rio de Janeiro, RJ 2010
- 62º National Botanical Congress, Fortaleza – Ceará (2011)
- 61º National Botanical Congress, Manaus – Amazonas (2010)
- 60º National Botanical Congress, Feira de Santana – Bahia (2009)
- XVII– Institutional Seminar of Scholarships for Undergraduate Research PIBIC/ CNPq. Rio de Janeiro, RJ (2009)
- Environment Week of the University Santa Úrsula. Rio de Janeiro, RJ (2008)
- XVIII Botanists Regional Meeting (ERBOT). Carangola, MG (2008)

PRESENTATION AND ROUND TABLE TALK

- Institutional workshop for training in extinction risk assessments the National Center for Plant Conservation/ CNCFlora data analysts' team – CNCFlora/ JBRJ. Lecture: **Global and national Phytogeographical Classification Schemes: main habitats and vegetation types** (2013)

- Institutional Seminar of Scholarships for Undergraduate Research – PIBIC/ CNPq. Research Institute of the Botanical Garden of Rio de Janeiro – National School of Tropical Botany. Lecture: **Checklist of plant species of High-Altitude grasslands) of the state of Rio de Janeiro – Brazil**. (2010)

- Institutional Seminar of Scholarships for Undergraduate Research – PIBIC/ CNPq. Research Institute of the Botanical Garden of Rio de Janeiro – National School of Tropical Botany. Lecture: **Checklist of plant species of High-Altitude grasslands) of the state of Rio de Janeiro – preliminary results**. (2009)

EVENTS ORGANIZATION - WORKSHOPS

- Institutional workshop for training in extinction risk assessments the National Center for Plant Conservation/ CNCFlora data analysts team – CNCFlora/ JBRJ (2013)
- Strategies for conservation and assessing the risk of plant extinction in megadiverse countries (2011)
- Endangered species of the Brazilian flora seminars (2010)
- Development of the National Program for Research and Conservation of Mountain Ecosystems (2009)

COMPUTER SKILLS AND LANGUAGE

- MS Office (Word; Excel; Access; Power Point) Proficient
- Microsoft Photo Editor Proeficient
- International English Language Testing System (IELTS) ® - Academic form Overall Band Score: 7.5 (April 2014)
- Advanced English; Number of points in TOEFL IBT®: 87 points (January 2013)
- Four (4) months of General English Course at Embassy CES – English Language Training Worlwide – achieved Upper Intermediate Level (2007)

OTHERS

- Awarded as one of the three most effective extinction risk assessors in the National process tha CNCFlora conducted (MSc. Miguel de Moraes, 2013).

- An exchange year in Australia studying General English (four months) and travelling across the country visiting several conservation units and important areas for biodiversity conservation within this country, such as: Kakadu and Litchfield N.P. (NT); Burleigh Heads N.P., Great Sandy N. P. (QLD); Nightcap N. P., Ku-Ring-Gai Chase N.P., Royal N.P. (NSW); Wilsons Promontory N.P., Great Otway N.P. (VIC), Cradle Mountain – Lake Saint Clair N.P's, Mt. Field N.P., Freycinet N.P. (TAS), and several others.

- Seven years as conservation photography experience (http://efernandezbiophoto.wix.com/efernandez). The main goal of this website is to disclose some knowledge that I earned in the past 7 years travelling and photographing in Brazil and other countries around the globe, part as a member of the Brazilian National Centre for Plant Conservation (CNCFlora - www.cncflora.jbrj.gov.br) and part by myself.

- Organization and implementation of various Botanic and Photography Expeditions to remote areas throughout Brazil: Aracá mountains State Park (AM); Amolar mountains Range, Pantanal (MS); Confusões Mountain Range National Park (PI), and several others important areas for biodiversity conservation within Brazil, documenting the biodiversity and gathering data for professional and personal projects within conservation biology and plant ecology.