

CURRICULUM VITAE

James Bruce Bell

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I. Education

2001 B. Sc. Davidson College, Biology. Minor in Spanish Language and Literature
2005 MEM, Duke University, Conservation Science and Management

II. Professional Experience

2001 Intern at the Luquillo Forest Dynamics Project (LFDP) Luquillo, Porto Rico
2002 GIS Intern at the The Nature Conservancy (TNC) of Virginia. Piedmont Program.
2004 GIS Intern at the Instituto Nacional de Pesquisas da Amazônia (INPA). Boa Vista, Brazil
2006 Geospatial Analysis Professor, The Nature Conservancy (TNC). Manaus, AM. Brazil.
2006-2007 Geospatial Director at the Piagaçu Institute. Manaus, AM. Brazil
2009-2011 Level 1 GIS Researcher, LACTEC, Curitiba, PR, Brazil
2011-2015 Technical Translator at JBBTranslations, Curitiba, PR, Brazil
2013 External GIS Consultant at Solufor Forest Solutions, Curitiba, PR, Brazil
2014-2015 Guest Lecturer at *Grupo Brazil Verde*, Além Paraíba, MG, Brazil
2015-2017 Director/Founder, *BVB Meio Ambiente, Educação, e Turismo, LTDA* Curitiba, PR, Brazil

III. Research

A. Area of professional expertise

The use of geospatial technologies to inform the science and practice of conservation biology. I am particularly interested in broad-scale effects of land-use, land-cover change on biodiversity and habitat quality. I have broad experience in cartography, GIS, and image analysis as well as ecological research methods and have taught at numerous age levels from elementary school to professional level adults in both English and Portuguese.

B. Academic Research Positions

2002-2003 Research Assistant at the Center for Rainforest Studies Field Station, Yungaburra, Australia.

2003-2005 Research Assistant at Conservation Ecology Lab, Duke University. Durham, NC

C. Academic Papers

Bell, J. B. (1999). Sediment preference and competitive exclusion in two species of fiddler crab. (Final undergraduate research paper)

Bell, J. B., Freeman, A. and Craig, M. (2003). Community rainforest restoration: a non-specialist approach to monitoring using beetle communities (unpublished research)

Bell, J. B., Vale, M., Pimm, S. (2005). The effect of road paving on land-cover change in the northern Brazilian Amazon. (Final Masters Project, unpublished research)

Vale, M., Bell, J., Alves, M., & Pimm, S. (2007). Abundance, distribution and conservation of Rio Branco Antbird *Cercomacra carbonaria* and Hoary-throated Spinetail *Synallaxis kollari*. *Bird Conservation International*, 17(3), 245-257. doi:10.1017/S0959270907000743

Pires, R. M, Bell, J. B, Sieciechowicz, M. S. F, Brassac, N. M., Bogusz, J. (2011). Plano Ambiental de Conservação e Uso do Entorno do Reservatório Artificial - Nova Metodologia para Elaboração de Zoneamento. XXI Seminário Nacional de Produção e Transmissão de Energia Elétrica (2011) (“*Environmental Plan for Conservation and Use for the Artificial Reservoir Region*”- *New Zoning Methodology. XXI National Symposium for Energy Production and Transmission*)

IV. Teaching and Continuing Education

A. Teaching

- 2002-2003 School for Field Studies. Yungaburra, QLD. Australia
Designed and presented GIS workshops for college students. Lead student research on invertebrate ecology.

- 2005 The Nature Conservancy (TNC) of Brazil and the Coordination of Indigenous Organizations of the Brazilian Amazon. Manaus, Amazonas. Brazil
Professor of Geo-spatial analysis. Developed a course handout with the fundamentals of GIS and remote sensing. Delivered a four-week GIS course.

- 2005 Indigenous Council of Roraima (CIR). Boa Vista, Roraima. Brazil
Consultant. Hired by CIR to train community representatives of the Raposa Serra do Sol indigenous community in modern mapping technologies to manage native land holdings.

- 2007 Piagaçu Institute, Manaus, AM, Brazil
Trained researchers in geospatial analysis and cartography using ArcView 9.1. Co-trainer database management.

- 2005 Indigenous Council of Roraima (CIR). Boa Vista, Roraima. Brazil
Consultant. Hired by CIR to train community representatives of the Raposa Serra do Sol indigenous community in modern mapping technologies to manage native land holdings.

- 2014 Maranhão State University, Imperatriz, MA, Brazil
Guest Professor. 4-day mini course, Forest Conservation Theory and Methods

- 2014 Grupo Brazil Verde. Guaraqueçaba, PR Brazil
Guest Lecturer. New Directions in Conservation of Forest Ecosystems.

- 2015 Grupo Brazil Verde. Guaraqueçaba, PR Brazil
Guest Presentation. Public use as a tool conservation of forest fragments of the Atlantic Forest. Co-presented with M. V. Concatto and B. G. Tavora

- 2016 Pontifical Catholic U. of Paraná. Forestry Student Conference. Curitiba, PR Brazil
Invited Guest Lecturer. Modern Nature Reserve Design in the United States.

- 2016 Grupo Brazil Verde. Alem Paraíba, MG. Brazil
Guest Lecturer.
1. New Directions in Conservation of Forest Ecosystems.
2. Ecological Restoration in the Australian Wet Tropics

B. Continuing Education

- 2002 Wilderness First Responder (WFR). Certified (Wilderness Medical Associates)
- 2005 Certificate Latin American Studies – Portuguese Language, Duke U.. Durham, NC. USA
- 2007 Introduction to Programming with Python (Geospatial Training Services). online course
- 2008 Analysis of Environmental Impacts and Legislation (SENAC), Curitiba, PR. Brazil
- 2008 ISO 14001:2004. Bureau Veritas, Curitiba, PR. Brazil
- 2008 Advanced KML in Google Earth. Geospatial Training Services. online course
- 2009 CAT Tools and Translation Techniques. TranslateWay. Curitiba, PR. Brazil
- 2012 Ecology and Conservation of the Atlantic Forest. Grupo Brazil Verde. Curitiba, PR Brazil
- 2013 Analysis of Multivariate Ecological Data (as auditing student). Federal U. of Paraná, Brazil
- 2017 Introduction to Programming the Google Maps API. Geospatial Training Services
- 2017 Introduction to Remote Sensing for Scenario-Based Ecoforecasting (NASA). Webinar

V. Community Service

- 2012-2015 St. Hilaire School of Applied Biodiversity Executive Plan
Development of an executive plan for a field school in the Atlantic Forest Biome (in progress).
- 2011-present Field Guide to the Trails of the Coastal Paraná Atlantic Forest
Co-authored with Brotto, M. Field Guide to the public access trail system in Coastal Paraná, Brazil. 150-page publication is directed at the the amateur photographer and naturalist (in progress).

VI. Languages and Skills

A. Information Technology

GIS/RS: ArcGIS, QGIS, Erdas Imagine, ENVI, GPS technology
Statistics: S-Plus, STATA, PCOrd, MSEXcel, R
Database: Microsoft Access, SQL, PostGRES
Programming: Python, Matlab, R

B. Languages

English, native language
Portuguese, fluent, resident 11 years in Brazil
Spanish, proficiency in speaking, writing