Denis Ribeiro do Valle

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EDUCATION

- 2008 – present. PhD student at the Graduate Program in Ecology, Duke University, USA.
- 2006 – 2008. Master of Science at the School of Forest Resources and Conservation, University of Florida (minor in Statistics), USA.
- 1998 – 2003. Degree in Forestry, by the Escola Superior de Agricultura "Luiz de Queiroz", University of Sao Paulo, Brasil

AWARDS AND GRANTS

- 2009. Award by the Duke Global Health Institute and the Center for Comparative Biology of Vulnerable Populations Pilot Projects Program (US$ 41,450).
- 2009. Pre-dissertation research travel award from the Graduate School, Duke University (US$ 1,800).
- 2007. Travel grant award from the College of Agricultural and Life Sciences, University of Florida (US$ 200)

SCHOLARSHIPS, FELLOWSHIPS, ASSISTANTSHIPS

- 2011. Katherine Goodman Stern Fellowship
- 2008-2009. Research assistantship provided by the Max Planck Institute (US$ 18,000).
- 2008-present. Tuition waiver and teaching assistantship provided by Duke University (tuition + fees: US$ 38,500/yr; assistantship: US$ 19,000/yr).
- 2006-2008. Tuition waiver and teaching assistantship provided by the University of Florida (tuition + fees: US$ 17,800/yr; assistantship: US$ 15,000/yr).

PEER-REVIEWED PUBLICATIONS

- **Valle, D**.; Clark, J.; Kaiguang, Z. 2011. Enhanced understanding of infectious diseases by fusing multiple datasets: a case study on malaria in the Western Brazilian Amazon region. PLOS One.
- Clark, J.; Bell, D.; Hersh, M.; Kwit, M.; Moran, E.; Salk, C.; Stine, A.; **Valle, D.**; Zhu, K. 2011. Individual-scale variation, species-scale differences: Inference needed to understand diversity. Ecology Letters, 14: 1273-1287
- **Valle, D.** 2011. Incorrect representation of uncertainty on the modeling of growth leads to biased estimates of future biomass. Ecological Applications, 21(4), pp. 1031-1036
- Clark, J. S.; Bell, D. M.; Chu, C.; Courbaud, B.; Dietze, M. C.; Hersh, M.; HilleRisLambers, J.; Ibanez, I.; LaDeau, S.; McMahon, S.; Metcalf, J. E.; Mohan, J. E.; Moran, E.; Pangle, L.; Pearson, S. F.; Salk, C. F.; Shen, Z.; **Valle, D.**; Wyckoff, P. 2010. High dimensional coexistence based on individual variation: a synthesis of evidence. Ecological Monographs, 80(4), pp. 569-608.
- **Valle, D**; Staudhammer, C. L.; Cropper Jr., W. P.; van Gardingen, P. 2009. The importance of multimodel projections to assess uncertainty in projections from simulation models. Ecological Applications 19(7), pp. 1680–1692
- **Valle, D.**; Staudhammer, C.; Cropper Jr., W. P. 2007. Simulating nontimber forest product management in tropical mixed forests. Journal of Forestry, 105, 6, 301-306.
- **Valle, D.**; Phillips, P.; Vidal, E.; Schulze, M.; Grogan, J.; Sales, M.; van Gardingen, P. 2007. Adaptation of a spatially explicit individual tree-based growth and yield model and long-term comparison between reduced-impact and conventional logging in eastern Amazonia, Brazil. Forest Ecology and Management. 243: 187-198.
- **Valle, D**.; Schulze, M.; Vidal, E.; Sales, M.; Grogan, J. 2006. Identifying bias in stand-level growth and yield estimations: a case study in eastern Brazilian Amazonia. Forest Ecology and Management. 236: 127-135.
- van Gardingen, P.; **Valle, D.**; Thompson, I. 2006. Evaluation of yield regulation options for primary forest in Tapajós National Forest, Brazil. Forest Ecology and Management. Forest Ecology and Management. 231: 184-195.

TEACHING EXPERIENCE

Duke Univ.:

- "Models for Environmental data". Duties: graded home-works, helped students, taught 3 classes
- "Topics in environmental and ecological statistics" and "Data analysis, data visualization and simulation in environmental studies using R". Duties: developed and taught these courses.
- "Applied differential equations in environmental sciences". Duties: graded home-works, answered questions

Univ. Florida:

- "Natural resources sampling". Duties: helped students in their field work

PROFESSIONAL EXPERIENCE

- 2006. Center for International Forestry Research (CIFOR). Consultant in the evaluation of the modeling potential of multiple use forest management and training on the model Symfor.

- 2006. Project "Associações-Modelo do Alto Moju – PA", within a partnership between EMBRAPA, local associations and the rural workers labor union. Consultant in the evaluation of the forest potential for community forest management.
- 2003 – 2006. Institute of Man and Environment in Amazonia ("Instituto do Homem e Meio Ambiente da Amazonia", IMAZON). Assistant researcher. Initially involved in Project Dendrogene within a partnership between IMAZON and EMBRAPA (DFID funding), and then Consórcio Alfa (USAID funding). Expertise on growth and yield modeling and long-term logged forest dynamics studies, with emphasis on sustainable forest management issues in mixed native tropical forests.

INTERNATIONAL EXPERIENCE

- 2006 - present. USA. MS at University of Florida, Gainesville – Florida. PhD at Duke University, Durham – North Carolina
- 2004. SCOTLAND. Training at Edinburgh University.
- 2001 – 2002. CHILE. Internship in Bioforest S. A., a research company of the group Arauco Forestal.
- 1987 – 1989. USA. Elementary school at Princeton - New Jersey.

LANGUAGE ABILITIES

- ENGLISH: fluent. Certificate in advanced English by Cambridge University (12.1995). TOEFL = 30/30 (Listening); 26/30 (Structure / writing); 29/30 (Reading); 283/300 (total) (04.2005).
- SPANISH: fluent.
- PORTUGUESE: native speaker.

INFORMATICS

Programming skills in C++ and Visual Basic. Ability to manipulate large datasets and statistical analysis with SAS and R. Statistical modeling expertise with emphasis in Bayesian statistics and simulation-based algorithms for model fitting (e.g., Monte Carlo Markov Chains).

OTHERS

- ***GRE: 740/800 (quantitative), 460/800 (verbal) (04.2005).***
- Official member of the government's Inter-institutional Working Group of Forest Monitoring of the Brazilian Amazon (GT Monitoramento) (IBAMA, MMA).
- Poster presentation, entitled "Priority areas for new permanent plots in the Brazilian Amazon", at the 19th Annual Meeting of the Society for Conservation Biology. Brasilia (July, 2005)
- Poster presentation, entitled "Assessing uncertainty in forest dynamics models", at the Ecological Society of America (ESA) meeting in San Jose, California (August, 2007)
- Participation in the short course "Modeling and Analysis using Monte Carlo Methods", taught by Dr. George Casella (April 24-25, 2008), Gainesville, FL.