

## Curriculum vitae

Surname: Buendía Grigoriu  
First name: Corina  
Date of birth: 14.07.1979  
Place of birth: Bogotá, Colombia  
Nationality: colombian & romanian  
Family status: married, one daughter  
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### Working experience

02/2015–present Investigador Ph. D, Dirección Centro de Investigación la Suiza, Corpoica, Santander, Colombia.

06/2013–11/2014 Post-doctoral researcher at Ecological Modelling group in the project Visions of Nature, Future Africa, Bayreuth Academy of Advanced African Studies, University of Bayreuth, Germany.

08/2007–05/2013 Research assistant at Biospheric Theory and Modelling group. Max Planck Institute for Biogeochemistry, Jena, Germany.

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### Education

12/2013 Dr. phil. nat. Thesis: *Towards understanding phosphorus dynamics, their geographic variation, and implications for terrestrial primary productivity.* Goethe University Frankfurt am Main, Germany.

10/2003 – 06/2007 M.Sc. Applied Mathematics. Thesis: *Fish resource dynamics: Modeling fish exploitation in the Amazon river basin.* Technical University Karlsruhe, Karlsruhe, Germany.

02/2002–11/2002 Exchange program. Studies in Zoology, Soil sciences, Dynamical systems, environmental issues, discrete algebraic structures. La Trobe University, Melbourne, Australia.

01/1999–12/2001	Studies in Ecology: Landscape Ecology, Population Ecology, Physical Geography, Vegetation Sciences, Applied Anthropology, Human Geography, Biology, Biogeochemistry. School of Environmental and Rural Studies, Javeriana University, Bogotá, Colombia.
01/1998–06/2003	B.Sc. Mathematics. Sergio Arboleda University, Bogotá, Colombia.
1996	High School degree at F.A.C.E (Foundation for the actualization of education based in love), Bogotá, Colombia.

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## Publications

2014	<b>C. Buendía</b> , S. Arens, T. Hickler, S. Higgins, P. Porada, and A. Kleidon. On the potential vegetation feedbacks that enhance phosphorus availability - insights from a process-based model linking geological and ecological time scales. <i>Biogeosciences</i> , <b>11</b> , 3661-3683, doi:10.5194/bg-11-3661-2014.
2010	<b>C. Buendía</b> , A. Kleidon and A. Porporato. The role of tectonic uplift, climate, and vegetation in the long-term terrestrial phosphorus cycle. <i>Biogeosciences</i> , <b>7</b> , 2025-2038, doi:10.5194/bg-7-2025-2010.
2010	P. Porada, S. Arens, <b>C. Buendía</b> , F. Gans, S. J. Schymanski, and A. Kleidon. A simple global land surface model for biogeochemical studies, <i>Max-Planck-Institute for Biogeochemistry - Technical Reports</i> , <b>18</b> , Jena, Germany.

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## Oral presentations

2014	<b>Buendía, C.</b> , Kleidon, A., Manzonie, S., Reu, B., and Porporato, A. Can phosphorus redistribution by animals fertilise Amazonian lowlands? <i>BIO-GEOMON conference</i> , Bayreuth, Germany.
2014	<b>Buendía, C.</b> , Mtata, K., Bogner, C., and Hauhs, M. Nature Inside and Outside Matobo National Park (Zimbabwe), <i>VAD conference</i> , Bayreuth, Germany .
2011	<b>C. Buendía</b> , S. Manzoni, A. Kleidon and A. Porporato. Exploring the missing processes contributing to the Amazon phosphorus budget. <i>European geophysical union meeting</i> , Vienna, Austria
2010	<b>C. Buendía</b> , A. Kleidon and A. Porporato. The role of tectonic uplift, climate, and vegetation in the long-term terrestrial phosphorus cycle. <i>European geophysical union meeting</i> , Vienna, Austria.

2003 **C. Buendía**, M. J. Corzo and C. A. Luque. Functions in Minkowski space. *XV Seminar in Geometry and III Seminar in Arithmetic*, Bogotá, Colombia.

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### Posters presentations

2011 **C. Buendía**, S. Manzoni, A. Kleidon and A. Porporato. On the relevance of animal transport to the phosphorus budget of the Amazon Basin. *27th New Phytologist Symposium on Stoichiometric flexibility in terrestrial ecosystems under global change*, Oracle, Arizona, USA.

2010 **C. Buendía**, A. Kleidon and A. Porporato. The role of tectonic uplift, climate, and vegetation in the long-term terrestrial phosphorous cycle. *TERRABITES Symposium*, Hamburg, Germany.

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### Other accredited training

08/2003 Youth Encounter on Sustainability (YES). Organized by ETH Zürich. Sustainable Development, Agenda 21, Braunwald, Zurich, Switzerland.

04/2005 Latin America Regional Seminar. Organized by ETH Zürich. The World Youth Encounter on Sustainability Forum Vereda La Cañña-Alcalá, Valle, Colombia.

10/2001 Workshop on Path Design and Investigation of Protected Ecological Systems, Javeriana University, Bogotá, Colombia.

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### Language skills

Spanish	first language
English	second language - fluent writing and speaking
German	good writing, fluent speaking
Romanian	fair speaking skills

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### References

Amilcare Porporato Professor at the Department of Civil Environmental Engineering, Duke University, Durham, NC 27708, USA. telephone: +1 919 660 5511. E-mail address: amilcare@duke.edu

Axel Kleidon Group leader of Biospheric Theory and Modeling Group, Max Planck Institute for Biogeochemistry, Jena, Germany. +49 3641 57 6217 E-mail address: akleidon@bgc-jena.mpg.de