Delphine Deryng

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Summer 2004

Research interests

I'm interested in the interactions between humans and global environmental issues associated with climate change and land use. Through my research, I aim to help bridging the gap between Science and Policy, with a focus on better understanding and interpreting results from numerical models. Having a background in physics and numerical analysis, my research involves modeling and data analysis at the global scale.

Education

 MSc. in Geography McGill University, Montreal, Quebec, Canada Thesis: Simulating the effects of climate and land management practices on global crosses 	<i>2010</i> p yield
 MSc. in Fundamental Physics Université Denis Diderot, Paris, France Thesis: Analysis of the spectrum of possible values of the Cosmological Constant and parameters for a successful inflation in the Field-Theory landscapes 	2006 fine-tuning of the
- 2004-2005: Exchange program at Université de Montréal & McGill University (Montré	eal, QC, Canada)
• BSc. in Physics with Honors • Université Denis Diderot, Paris, France	2004
Experience	
 Research Assistant Land Use and Global Environmental Change Department of Geography - McGill University, Montreal, Quebec, Canada Developed and evaluated process and statistical based models on global crop yield and Extracted, compiled, analyzed, and processed massive amounts of data on global agric practices and global land use and land cover Participated actively in international workshops and conferences Prepared weekly laboratory research meetings 	
 Research Intern ETC Group Action Group on Erosion, Technology and Conservation, Montreal, Quebec, Canada Identified and classified current and future biofuel initiatives worldwide for a synthesis appropriation of biomass Participated in the preparation of side events during subsidiary meetings of the UN C Diversity (Montreal, November 2009) 	-
 Research Assistant Département de Physique et Regroupement Québécois sur les Materiaux de Pointe (RQMP) Université de Montréal, Montreal, Quebec, Canada Simulated and analyzed the effect of the thermal ablation of wet solids by ultrashort 1 	, ,
 Research Internship Institut d'Astrophysique Spatiale (IAS), Orsay, France Reconstructed 2-D signal for the WMAP experiment Reconsch Internship 	Winter 2006

Research Internship

- Laboratoire d'Astroparticules et Cosmologie (APC), Paris, France
 - Reconstructed 1-D signal for the ARCHEOPS experiment

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Winter 2006

Software and technical skills

Programming languages: Fortran 77/90, IDL, C/C++

Data analysis: Statistical data analysis tools (GnuPlot, R), Geographic Information Systems (ArcGIS), Excel

Communication tools: Word, PowerPoint, LaTeX

Operating Systems: Mac OS X, Windows XP, Linux

Languages

English (fluent), French (mother tongue), Spanish (oral and written proficiency)

Communication skills

- Graduate Teaching Workshop
 Fall 2009

 McGill University, Montreal, QC, Canada
 Fall 2009

 Scientific communication internship
 Spring 2006

 Musée Marie Curie, Paris, France
 Spring 2006

 Wrote an educational pamphlet on radioactivity for visitors of the museum
 Gualification in Scientific Communication
 - Centre de la Vulgarisation de la Connaissance Orsay, France

Publications

- Deryng, D., Sacks, W., Ramankutty, N. (submitted) "Simulating the effects of climate and land management practices on global crop yield", Global Biogeochemical Cycles
- Sacks, W., Deryng, D., Foley, J., Ramankutty, N. (in press) "Crop planting dates: An analysis of global patterns", Global Ecology Biogeography
- Perez, D., Beland, L. K., Deryng, D., Lewis, L. J., and Meunier, M. (2008) "Numerical study of the thermal ablation of wet solids by ultrashort laser pulses", Phys. Rev. B 77

Workshops and conferences

_	McGill Conferences on Global Food Security, Montreal, QC, Canada	
•		<i>October 2008 and 2009</i>
•	AGU fall meeting, San Francisco, USA	December 2008
	Poster presentation: Developing a global crop model for maize, wheat, and soybeans	
•	3rd AIMES Young Scholar's Network Workshop, Bristol, UK	June 2007
	Modeling Global Land-Use Decision Making	

Awards and academic affiliation

- Student stipend (2009) GEC3 (Global Environmental and Climate Change Centre)
- Travel award (2008) GEC3
- Member of the American Geophysical Union (AGU) since 2007

References are available on request