

Dan Flynn

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Institute of Evolutionary Biology and Environmental Studies
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POSITIONS

2011 Postdoctoral Research Scientist, Institute of Evolutionary Biology and Environmental Studies, University of Zurich.

EDUCATION

PhD Ecology, Evolution, & Environmental Biology, Columbia University, 2011.
BA Biology, Oberlin College, 2001.

FELLOWSHIPS AND AWARDS

- 2007-2009 *Fellow* National Science Foundation, Graduate Research Fellowship
Awarded to support doctoral research.
- 2007 *Grantee* Columbia University, Institute of Latin American Studies
Awarded in support of research on forest succession in Puerto Rico.
- 2006 *Fellow* Oberlin College, Alumni Graduate Fellowship
Awarded to support preliminary doctoral research in Inner Mongolia, China.
- 2002-2003 *Fellow* Oberlin Shansi Memorial Association.
Awarded to outstanding graduates of Oberlin College to support cross-cultural exchange, independent projects, and language education in Asia.
- 2000 *Winter Term Fellow* University of Arizona, Department of Plant Pathology
Awarded to support visiting students performing independent research.
- 2000 *Joshua Levitt Memorial Award* Oberlin College, Department of Biology
Awarded to top biology majors in recognition of academic excellence.

TEACHING

- 2006-2010 *Consultant* Department of Biology, Barnard College
Prepared a web-based tutorial in the statistical software SPSS for undergraduate courses. Adapted introductory biology curriculum with statistics modules.
- 2006-2008 *Teaching Assistant* Columbia University
Statistical Inference in Ecology and Evolutionary Biology
Introductory Biology
Forest Ecology
- 2005-2006 *Editor-in-Chief* Columbia Undergraduate Science Journal

Worked with undergraduate students to establish a new peer-reviewed science journal for undergraduates. Mentored students in manuscript preparation.

2001 *MacGregor-Oresman Curriculum Assistant* Department of Biology, Oberlin College
Aided in the design and development of a new course, Biology and Society.

RESEARCH POSITIONS

2005 *Research Assistant* Rowland Institute at Harvard
Aided Dr. Kristin Lewis on research on the chemical ecology of parasitic plant and host plant associations. Planned and conducted experiments using short-lived radioisotopes at Brookhaven National Laboratory.

2003-2005 *Visiting Researcher* Peking University, Beijing, China
Collaborated on research on plant community and ecosystem ecology in the Department of Ecology with Dr. Jin-Sheng He and Dr. Jingyun Fang.

2001-2003 *Research Assistant* Harvard University
Supported plant ecology and global climate change research in the lab of Dr. Fakhri Bazzaz. Managed greenhouse, experimental garden, and CO₂ enrichment experiments.

2000 *Research Assistant* University Of Virginia
Assisted Dr. Laura Galloway in population genetic research in natural plant populations at the Mountain Lake Biological Station.

PROFESSIONAL SERVICE

Reviewer

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|------------------------------|---|
| Biological Conservation | Journal of Plant Ecology |
| Biotropica | Oecologia |
| Caribbean Journal of Science | Oikos |
| Ecology | New Phytologist |
| Ecology Letters | Perspectives on Plant Ecology, Evolution, and |
| Journal of Animal Ecology | Systematics |
| Journal of Arid Environments | PLoS One |

Member Ecological Society of America

PUBLICATIONS

* Denotes equal authorship

In press

Brown KA, **DFB Flynn**, NK Abram, JC Ingram, SE Johnson, P Wright. Assessing natural resource use by forest-reliant communities using utilitarian functional diversity and functional redundancy. *PLoS One*.

Goldstein J, **DFB Flynn**. Integrating active learning and quantitative skills into undergraduate introductory biology curricula. *American Biology Teacher*.

XT Lü, GT Freschet, **DFB Flynn**, XG Han. Plasticity in leaf and stem nutrient resorption proficiency potentially reinforces plant-soil feedbacks and micro-scale heterogeneity in a semi-arid grassland. *Journal of Ecology*.

2011

Flynn, DFB, N Mirotchnick, M Jain, MI Palmer, S Naeem. 2011. Functional and phylogenetic diversity as predictors of biodiversity-ecosystem function relationships. *Ecology* 92: 1573-1581.

R Remans*, **DFB Flynn***, F DeClerck, W Diru, J Fanzo, K Gaynor, I Lambrecht, J Mudioppe, PK Mutuo, P Nkhoma, D Siriri, C Sullivan, CA Palm. 2011. Assessing nutritional diversity of cropping systems in African villages. *PLoS One* 6: e21235.

Lin BB*, **DFB Flynn***, DE Bunker, M Uriarte, S Naeem. 2011. The effect of agricultural diversity and crop choice on functional capacity change in Great Plains grassland conversions. *Journal of Applied Ecology* 48: 609-618.

2010

Flynn, DFB, M Uriarte, T Crk, JB Pascarella, JK Zimmerman, TM Aide, MAC Ortiz. 2010. Hurricane disturbance alters secondary forest recovery in Puerto Rico. *Biotropica* 42: 149-157.

He, J-S, X Wang, B Schmid, **DFB Flynn**, XF Li, PB Reich, and J Fang. Taxonomic identity, phylogeny, climate and soil fertility as drivers of leaf traits across Chinese grassland biomes. *Journal of Plant Research* 123: 551-561.

2009

Flynn, DFB, M Gogol-Prokurat, T Nogeire, N Molinari, B Trautman Richers, BB Lin, N Simpson, MM Mayfield and F DeClerck. 2009. Loss of functional diversity under land use intensification across multiple taxa. *Ecology Letters* 12: 22-33.

He JS, X Wang, **DFB Flynn**, L Wang, B Schmid, J Fang. 2009. Taxonomic, phylogenetic and environmental tradeoffs between leaf productivity and persistence. *Ecology* 90: 2779-2791.

Philpott, SM, O Soong, JH Lowenstein, AL Pulido, DT Lopez, **DFB Flynn**, F DeClerck. 2009. Functional richness and ecosystem services: Bird predation on arthropods in tropical agroecosystems. *Ecological Applications* 19: 158-1867.

Crk T, M Uriarte, F Corsi, **D Flynn**. 2009. Forest recovery in a tropical landscape: What is the relative importance of biophysical, socioeconomic, and landscape variables? *Landscape Ecology* 24: 629-642.

Uriarte, M, C Yackulic, T Cooper, **DFB Flynn**, M Cortes, T Crk, G Cullman, M McGinty, J Sircely. 2009. Expansion of sugarcane production in São Paulo, Brazil: Implications for fire occurrence and respiratory health. *Agriculture, Ecosystems, & Environment* 132: 48-56.

Brown KA, JC Ingram, **DFB Flynn**, RJ Razafindrazaka, VH Jeannoda. 2009. Protected areas safeguard tree and shrub communities from degradation and invasion: a case study in eastern Madagascar. *Environmental Management* 44: 136-148.

Solan, M, JA Godbold, A Symstad, **DFB Flynn**, D Bunker. 2009. Biodiversity-ecosystem function research and biodiversity futures: early bird catches the worm or a day late and a dollar short? *In* D Bunker, S Naeem, M Loreau, A Hector, Eds. The Consequences of Changing Biodiversity: Solutions and Scenarios. Oxford University Press.

Petchey, OL, E O'Gorman, **DFB Flynn**. 2009. A functional guide to functional diversity measures. *In* D Bunker, S Naeem, M Loreau, A Hector, Eds. The Consequences of Changing Biodiversity: Solutions and Scenarios. Oxford University Press.

2008

Flynn, DFB, B Schmid, JS He, K Wolfe-Bellin, FA Bazzaz. 2008. Hierarchical reliability in experimental plant assemblages. *Journal of Plant Ecology* 1: 59:65.

He JS, L Wang, **DFB Flynn**, W Ma, X Wang, J Fang. 2008. Leaf nitrogen:phosphorus stoichiometry across Chinese grassland biomes. *Oecologia* 1: 301-310.

2006

Flynn, DFB, EA Sudderth, FA Bazzaz. 2006. Effects of aphid herbivory on biomass and leaf-level physiology of *Solanum dulcamara* under elevated temperature and CO₂. *Environmental and Experimental Botany* 56: 10-18.

He, JS, JY Fang, ZH Wang, DL Guo, **DFB Flynn**, Z Geng. 2006. Stoichiometry and large-scale patterns of leaf carbon and nitrogen in the grassland biomes of China. *Oecologia* 149: 115-122.

2005

He, JS, **DFB Flynn**, K Wolfe-Bellin, JY Fang, FA Bazzaz. 2005. CO₂ and nitrogen, but not density, alter size and C/N ratio of *Phytolacca americana* seeds. *Functional Ecology* 19: 437-444.

Zuo, WY, JS He, M Han, CJ Ji, **DFB Flynn**, JY Fang. 2005. Responses of plant stomata to elevated CO₂ and temperature: observations from 10 plant species grown in temperature

and CO₂ gradients. *Acta Ecologica Sinica* 25: 565-574. (In Chinese with English abstract).

Presentations and invited talks

2010 Ecological Society of America - Annual Meeting

2009 University of Zurich - By invitation of Bernhard Schmid

2009 Stanford University - By invitation of Tadashi Fukami

2009 Ecological Society of America - Annual Meeting

2007 Ecological Society of America - Annual Meeting (Co-author)

2005 University of Vermont - Sino-USA Symposium on Ecosystem Complexity and Ecosystem Services (Poster)

2003 Beijing Normal University - Conference on Plant Biology