

HEDVIG NENZÉN

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Address: 353 rue Doucet, app A, Rimouski, Qc, Ca, G5L 1M4

EDUCATION

Université de Québec à Montréal

PhD in Biology

Thesis: Space-time interactions in forest metacommunities

Advisors: Pedro Peres-Neto and Dominique Gravel

Canada

9/2011 –

Uppsala University

Master, Ecology and Conservation

Thesis: Impact of threshold-setting methods on species range changes under climate change

Advisor: Miguel B. Araújo

Sweden

8/2008 – 8/2010

Whittier College

Bachelor of Arts, Biology, magna cum laude

Thesis: Seedling recruitment in the coastal sage scrub -grassland ecotone with respect to native and non-native grasses.

CA, USA

8/1999 – 5/2003

PUBLICATIONS

Nenzén, HK, MB Araújo. 2011. Choice of threshold alters projections of species range shifts under climate change. *Ecological Modelling* 222; 3346–3354.

Nenzén, HK, R Swab, DA Keith, MB Araújo. *demoniche* – an R-package for simulating spatially-explicit population dynamics. *Accepted in Ecology*.

Nenzén, HK, MI Gómez, K Naoki, A Domic. Regeneration in treeline *Polylepis pepeii* forests, Tropical Andes. *In preparation, Journal of Tropical Ecology*.

RESEARCH PRESENTATIONS and POSTERS

Applications of Network Theory – the Conference

Unravelling Pleistocene food webs. Nenzén, HK and S Varela.

2011 (*poster*)

International Biogeography Society Conference

Responses to climate and land-use changes in a coupled demographic and bioclimatic envelope model.

Nenzén, HK, K Naoki, MI Gómez, R Early and MB Araújo.

2011 (*poster*)

Ecological Society of America Conference

Seedling recruitment in the coastal sage scrub -grassland ecotone with respect to native and non-native grasses. Nenzén, HK and C Swift.

2003 (*poster*)

Smithsonian Environmental Research Center

Use of LIDAR to determine structure on two different aged hardwood forests. Nenzén, HK and T Parker.

2002 (*presentation*)

Southern California Conference for Undergraduate Research

The effect of solarization on germination rates of invasive species in S. California. Nenzén, HK, C Swift.

2002 (*poster*)

SOFTWARE

demoniche – spatial population dynamics. Available at: <http://demoniche.r-forge.r-project.org/>

RESEARCH EXPERIENCE

Rui Nabeiro Biodiversity Chair

Researcher

Évora, Portugal

12/2010 – 7/2011

- Created R-package with linked demographic and climatic modelling. Hosted and arranged two talks by visiting researchers.

Spatial Analysis Center, University of San Andrés

Associated researcher

La Paz, Bolivia

8/2009 – 2/2010

- Carried out field inventory to investigate structure of threatened tree-line forest. Performed germination experiments at different temperatures to determine effects on reproduction.

Conservation International

GIS Consultant

La Paz, Bolivia

9/2007 – 7/2008

- Conservation planning to identify most biodiverse and threatened areas in Bolivia. Created Geodatabase with 100,000 georeferenced species records.

Amazon Conservation Association

Botanist

La Paz, Bolivia

7/2004 – 5/2005

- Participated in two month-long research excursions to Madidi National Park. Collected and identified plants, collected and analyzed transect data in grassland and forest habitats.

Smithsonian Environmental Research Center

Ecology Intern

MD, USA

summer 2003

- LIDAR to investigate structure and function of forest stands of different ages and structures.

University of Minnesota

Life Sciences Undergraduate Research Program Intern

MN, USA

summer 2002

- The effect of pathogens and Arbuscular Mycorrhizal Fungi on native and invasive species.
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WORKSHOPS and SCHOOLS

Community Phylogenetics, Quebec Centre for Biodiversity Science, Canada

10/2011

Dynamical Models in Life Sciences, Summer School,

7/2011

European Society for Mathematical and Theoretical Biology, Portugal

TEACHING and MENTORING EXPERIENCE

Workshop co-instructor, ‘Global change and Biodiversity’, Msc course

6/2010

Universidad Internacional Menéndez Pelayo, Spain

Workshop organizer and instructor, ‘Introduction to R’

4/2011

Universidade de Évora, Portugal

Biology Teacher, middle and high school

1 – 12/2006

Saint Andrews International School, Bolivia

LANGUAGES

Programming and package-building in R

LaTeX, Sweave

ArcMap, ArcCatalog, QGIS

Fluent in Swedish, English and Spanish

Conversational in French and Portuguese

Basic Aymara, Bolivian language