

HEDVIG NENZÉN

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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. *Ecography early view*.
- Nenzén, HK, MI Gómez, K Naoki, A Domic. Regeneration in treeline *Polylepis pepepe* forests, Tropical Andes. *In preparation, Journal of Tropical Ecology*.

RESEARCH PRESENTATIONS and POSTERS

- Applications of Network Theory – the Conference 2011 (*poster*)
Unravelling Pleistocene food webs. Nenzén, HK and S Varela.
- International Biogeography Society Conference 2011 (*poster*)
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.
- Ecological Society of America Conference 2003 (*poster*)
Seedling recruitment in the coastal sage scrub -grassland ecotone with respect to native and non-native grasses. Nenzén, HK and C Swift.
- Smithsonian Environmental Research Center 2002 (*presentation*)
Use of LIDAR to determine structure on two different aged hardwood forests. Nenzén, HK and T Parker.
- Southern California Conference for Undergraduate Research 2002 (*poster*)
The effect of solarization on germination rates of invasive species in S. California. Nenzén, HK, C Swift.

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.

TEACHING and MENTORING EXPERIENCE

Workshop organizer and instructor, 'Introduction to R'

Universidade de Évora, Portugal

4/2011

Workshop co-instructor, 'Global change and Biodiversity', Msc course

Universidad Internacional Menéndez Pelayo, Spain

6/2010

Biology Teacher, middle and high school

Saint Andrews International School, Bolivia

1 – 12/2006

Environmental Education Instructor, Rock Eagle 4-H Center and

Brooklyn Center for the Urban Environment, USA

7 – 12/2003

Laboratory Assistant and Tutor, Organic Chemistry and Freshman Writing Seminar,

Teaching Assistant/ Freshman advisor

1 – 5/2004

part time 2001 – 2003

WORKSHOPS and SCHOOLS

Individual- and Agent-Based Modelling Workshop, Germany

6/2012

Community Phylogenetics, Quebec Centre for Biodiversity Science

10/2011

Dynamical Models in Life Sciences, Summer School,

7/2011

European Society for Mathematical and Theoretical Biology, Portugal

GRANTS and AWARDS

Quebec Center for Biodiversity Science Excellence Award (\$1,825)	2012
Forest Complexity Modelling program (\$10,000)	2011
FARE Excellence graduate fund, UQAM (\$6,000)	2011
Travel grant, International Biogeography Society Annual Conference (\$190)	2010
Outstanding Biology Student (department honor)	2003
Elected to Biological Honors Society	2003
Graduated Magna Cum Laude	2003
John Greenleaf Whittier Scholarship	1999-2003
Best biology student, High School graduating class	1999

LANGUAGES

Programming and package-building in R	Fluent in Swedish, English and Spanish
LaTeX, Sweave	Conversational in French and Portuguese
ArcMap, ArcCatalog, QGIS	Basic Aymara, Bolivian language

VOLUNTEER ACTIVITIES

<i>Communications Intern</i> , Food International Action Network, Sweden	summer 2009
<i>Education assistant and guide</i> , Vesty Pakos Zoological Garden, Bolivia	7 – 12/2005