

CURRICULUM VITAE

Espíndola, María Anahí
Department of Ecology and Evolution
Biophore Building - University of Lausanne
1015 – Lausanne
Switzerland
+41 (0)21 692 42 78

28 years-old
married
Argentine
mariaanahi.espindola@unil.ch

Academic experience

- 2011 Research Assistant at the Department of Ecology and Evolution, University of Lausanne, Switzerland.
- 2006 - 2010 PhD at the E-vol Laboratory of the University of Neuchâtel, Switzerland: “Inferring reciprocal evolutionary histories in associated species of plants and insects in two European pollination systems”, under the direction of Prof. Martine Rahier and Dr. Nadir Alvarez.
- 2002 - 2006 Biology, diploma at the E-vol Laboratory of the University of Neuchâtel, Switzerland. Diploma: “Interactions between *Horismenus butcheri* Hansson & Aebi (Hymenoptera: Eulophidae) and two *Phaseolus* (Fabaceae) bean species in Central Mexico. Biology, population genetics and geospatial studies”, under the direction of Dr. Betty Benrey.
- 2000 - 2001 Biology, at the National University of Córdoba, Argentina.

Courses

- January-March
2010 “Computational Phylogenetics and Phylogeography”. Prof. Bryan C. Carstens. Louisiana State University, USA.
- 13-28
May, 2009 “An introduction to the Practice of Statistics using R”. Dr. Thomas Gsponer. NCCR Doctoral Program. University of Neuchâtel, Switzerland.
- 10-14
September, 2007 “Phylogénie et évolution moléculaire”. Dr. Juan Montoya and Dr. Jan Pawlowski. Departement of Zoology and Animal Biology. University of Geneva, Switzerland.
- 9-11
October, 2006 “Population genetic data analysis”. Dr. Felix Gugerli and Dr. Rolf Holderegger. Plant Science Center Zürich. ETHZ, Switzerland.

Conferences

- 13-16
October 2009 Poster. **Espíndola A.** and Alvarez, N. "Does nursery pollination promote species diversification in the West-Palearctic?" DIVERSITAS Open Science Conference 2. "Biodiversity and Society: Understanding connections, adapting to change", Cape Town, South-Africa.
- 8-10
July, 2009 Oral communication. **Espíndola A.** and Alvarez, N. "Biogeography of *Arum maculatum* pollinators". Xth International Aroid Society Conference . Nancy, France.
- 8-10
July, 2009 Poster. Revel, N. and **Espíndola, A.** "Pollination biology of *Arum cylindraceum*". Xth International Aroid Society Conference . Nancy, France.
- January 30 –
February 1, 2008 Participation at the "Plant Species Concepts and Evolution": NCCR Plant Survival Conference. University of Neuchâtel, Neuchâtel, Switzerland.
- 17-21
September, 2007 Poster. **Espíndola A.**, Alvarez, N. and Benrey, B. "Population and landscape genetics of a Mexican parasitoid". Xth European Workshop on Insect Parasitoids, Erice, Italy.

Publications

Espíndola A., Buerki S., Bedalov M., Küpfer P. and Alvarez N. 2010. New insights into the phylogenetics and biogeography of *Arum* (Araceae): unravelling its evolutionary history. *Botanical Journal of the Linnean Society*. 163, 14–32.

Espíndola A., Pellissier L. and Alvarez N. *in press*. Variation in the proportion of flower visitors of *Arum maculatum* along its distributional range in relation with community-based climatic niche analyses. OIKOS. doi: 10.1111/j.1600-0706.2010.18937.x

Internships

- 15.08.05-09.09.05 Study of gene flow between different species of the genus *Aegilops* in Europe, using RAPD markers: "*La génétique de populations d'Aegilops neglecta Req. et Bertol., A. cylindrica Host, A. triuncialis L. et A. geniculata Roth dans quatre pays d'Europe*". Laboratoire de Botanique Evolutive. University of Neuchâtel. Under the supervision of Dr. Roberto Guadagnuolo.
- 26.07.04-10.09.04 Primer development and sequencing of genes involved on species isolation in *Drosophila montana*: "Mating song evolution of *Drosophila montana* (Diptera: Drosophilidae). A molecular analysis of the evolution of the cacophony (*cac*) gene". Laboratory of Biology and Evolution, the University of Leeds (UK). Under the supervision of Prof. R. K. Butlin.

Teaching

- 2008 – 2009 Supervision of Master student Natacha Revel. Master thesis: “Etude sur l’espèce *Arum cylindraceum* Gasp. (Araceae) ; sa pollinisation, sa stratégie reproductive et sa phylogéographie”. University of Neuchâtel.
- 2007 - 2009 Bachelor classes at the University of Neuchâtel: “Ecologie Evolutive”, “Méthodes Quantitatives en Ecologie”, “Biologie des Invertébrés”.
- Master classes at the University of Neuchâtel, Master of Physiology and Ecology of Plants (PEP): “Classics in Biology” and “Biogéographie et modélisation espèces-environnement”.

Field experience

- April – August, 2007
April – August, 2008 Field trips covering the European continent (Great Britain, Scandinavia, Balkans, Central Europe, Italy and Spain).
- 26.01.2005-26.02.2005
31.12.2005-8.02.2006 Field trips in Central Mexico.

Prizes

- October, 2006 Jean Landry Prize, for a mean of 5.73 at the end of the studies.

Grants

- 2009-2010 *Fonds des Donations* of the University of Neuchâtel, to get training on methods in phylogeographical statistics at the Laboratory of Bryan C. Carstens, Department of Biological Sciences, Louisiana State University, USA.
- April – June
2008 SCNAT+ funds for field work, to carry out the sampling of *Arum cylindraceum* and its pollinators throughout its South-East European distribution.
- July – September
2004 Funds Wüthrich - Matthey-Dupraz; for an internship at the Laboratory of Prof. R. K. Butlin, Leeds, UK.

Informatics

- Wide experience with Geographic Information Systems: ArcGIS and ArcView
- Good knowledge in exploration of Biodiversity and geographic databases: GBif, EUNIS, several European local databases, European soils database.
- Good experience in the use of population genetics and phylogenetics softwares: e.g., STRUCTURE, Geneland, MrBayes, F-stats, Arlequin, TreeFinder, MrAIC, PAUP*, Mesquite.
- Good knowledge in the use of graphic treatment of images (Photoshop and Illustrator).

Languages

- Spanish: native speaker.
- English: very good written and spoken knowledge (Upper Intermediate Level).
- French: excellent written and spoken knowledge (“Accès au DALF” certificate + 8 years of studies at the University of Neuchâtel, Switzerland)
- German: good spoken (Swiss-German) and some written knowledge.