

CURRICULUM VITAE

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RESEARCH INTERESTS

The primary objective of my research is to understand the effects of spatiotemporal environmental variability on biological and evolutionary processes that drive species distribution and ultimately, species diversity. I draw from a variety of quantitative ecological tools including population biology, population genetics, landscape demography and ecological niche modelling.



POSITIONS

- 2015 –2017 **Postdoctoral Research Fellow**, School of Natural Sciences, Trinity College Dublin, Ireland
- 2012 –2014 **Research Associate**, Department of Botany, University of British Columbia, Vancouver, Canada
- 2010 – 2012 **Visiting Scientist**, Department of Botany, University of British Columbia, Vancouver, Canada
- 2006 – 2012 **Assistant Professor**, Department of Horticulture, Sapientia Hungarian University of Transylvania, Romania
- 2004 – 2006 **Conservation Biologist**, Environmental Protection Agency of Harghita County, Romania
- 2000 – 2004 **Curator and collection manager**, Herbarium of Babeş-Bolyai University and Alexandru Borza Botanical Garden, Romania

EDUCATION

- 2001 – 2009 **PhD** in Plant Ecology, Babeş-Bolyai University, Romania
- 1998 – 1999 **MSc** in Community Ecology, Department of Taxonomy and Ecology, Babeş-Bolyai University, Romania
- 1994 – 1998 **BSc** in Biology, Department of Taxonomy and Ecology, Babeş-Bolyai University, Romania

GRANTS AND AWARDS

Grants

- 2015-2017 Marie Skłodowska-Curie Individual Fellowship, Ireland (€187,866)
- 2007-2008 Rufford Small Grants for Nature Conservation, England (£5,000)
- 2001, 2008 Research fellowships, Hungarian Academy of Sciences, Hungary (€700)
- 2003-2006 3-year stipend for PhD studies, University of Pécs, Hungary (€800)
- 2003, 2005, 2007 Research fellowships, Corvinus University from Budapest, Hungary (€600)

Awards

- 2009 Magna cum Laude, PhD thesis (Babeş-Bolyai University, Romania)

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PUBLICATIONS

In preparation

- Csergő AM**, Broennimann O, Petitpierre B, Buckley Y and Guisan A, The geography of habitat suitability.
- Broennimann O, **Csergő AM** and Guisan A, Buckley YM, Global patterns in species' geographic ranges: an analysis of habitat fragmentation.
- Csergő AM** et al. Demographic strategies of population persistence on islands.
- König C, Demeter L and **Csergő AM**, Drivers of species and functional diversity in insular wetlands systems.
- Bódis J, Jongejans E, Buckley Y and **Csergő AM**, Demographic responses of orchids to climate: signals from two sister species at the northern range limit.
- Csergő AM**, Salguero-Gómez R, Broennimann O, Coutts SR, Guisan A, Angert AL, Welk E, Stott I, Enquist BJ, McGill B, Svenning J-C, Violle C and Buckley Y, Macroclimate suitability predicts underlying demographic processes but not population growth rates and extinction risk for 34 plant species worldwide.

In review and in press

- Coutts SR, Salguero-Gómez R, **Csergő AM**, Buckley YM, Extrapolating demography with climate, proximity and phylogeny: approach with caution (in press, *Ecol. Lett.*)
- Maseyk FJF, Demeter L and **Csergő AM**, Buckley YM, Effect of management on natural capital stocks underlying ecosystem service provision: a “provider group” approach (in review, *Biodiv. Conserv.*)

Published

- Lee-Yaw JA, Kharouba HM, Bontrager M, Mahony C, **Csergő AM**, Noreen AME, Li Q, Schuster R and Angert AL (2016) A synthesis of transplant experiments and ecological niche models suggests that range limits are often niche limits. *Ecol. Lett.* 19: 710–722
- Pither et al. (2016) Response to comment on "Worldwide evidence of a unimodal relationship between productivity and plant species richness". *Science* 351:457
- Fraser et al. (2015) Worldwide evidence of a unimodal relationship between productivity and plant species richness. *Science* 349: 302-305
- Csergő AM**, Hufnagel L, Höhn M (2014) Positive relationship between genetic- and species diversity on limestone outcrops in the Carpathian Mountains. *Ecol. Complex.* 20: 233-239
- McCune JL, Harrower WL, Avery-Gomm S, Brogan JM, **Csergő AM**, Davidson LNK, Garani A, Halpin LR, Lipsen PJJ, Lee C, Nelson JC, Prugh LR, Stinson CM, Whitney CK and Whitton J (2013) Threats to Canadian species at risk: an analysis of finalized recovery strategies. *Biol. Cons.* 166: 254–265.
- Csergő AM**, Demeter L, Turkington R (2013) Declining Diversity in Abandoned Grasslands of the Carpathian Mountains: Do Dominant Species Matter? *PLoS ONE* 8(8): e73533.
- Csergő AM**, Molnár E, García MB (2011) Dynamics of isolated *Saponaria bellidifolia* Sm. populations at northern range periphery. *Popul. Ecol.* 53: 393-403.

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- Csergő AM**, Nemes Sz, Gafta DC, Demeter L, Jakab S (2009a) Two-scale modelling of *Saponaria bellidifolia* Sm. (Caryophyllaceae) abundance on limestone outcrops from its northern range periphery (Southeastern Carpathians). *Plant Ecol.* 203: 229-242.
- Csergő AM**, Schönswetter P, Mara Gy, Deák T, Boşcaiu N, and Höhn M (2009b) Genetic structure of peripheral, island-like populations: a case study of *Saponaria bellidifolia* Sm. (Caryophyllaceae) from South Eastern Carpathians. *Plant Syst. Evol.* 278: 33-41.
- Gafta D, Muncaciu S, **Csergő AM** (2006) Morphometric variation in a rare endemic *Aquilegia* (Ranunculaceae) in the Carpathians. *Plant Biosystems* 140(3): 297-306.

BOOK TRANSLATION (Hungarian to English)

Zámboriné Németh Éva, Horváth Levente (Eds.) 2013, Modern Horticulture, digital textbook for Masters students. Corvinus University of Budapest, ISBN: 978-963-503-537-3 (6 Ecology chapters authored by Dr. Mária Höhn) (URL: <http://kertesztananyag.hu/botany>)

INVITED TALKS

Yvonne Buckley, **Anna M Csergő**, Shaun Coutts: "Predicting plant population performance from climate suitability, proximity and phylogeny" Ecology Society of America Annual Meeting, Fort Lauderdale, Florida 2016 August 7-12

REGULAR TALKS and POSTERS

please visit: <http://annamariacsergo.weebly.com/news.html>

TEACHING

Lecturer:

Conservation Biology¹ (2005 – 2010)

Plant Systematics¹ (2005 – 2010)

Plant Anatomy & Morphology¹ (2005 – 2010)

Plant Physiology¹ (2005 – 2010)

Field courses

Botany & Conservation Biology^{1,2} (2001-2006) – in several national parks of Romania

Lab coordinator:

Plant Communities² (2001)

Plant Systematics^{1,2} (2001, 2005 –

Plant Anatomy&Morphology¹(2005

Plant Physiology¹ (2005 – 2010)

¹ Department of Horticulture, Sapientia University, Romania

² Department of Taxonomy and Ecology, Babeş-Bolyai University, Romania

SUPERVISION OF STUDENTS

2006–2015 2 undergraduate honours theses at Trinity College Dublin - Ireland (co-supervision with Prof. Yvonne Buckley) and 4 undergraduate honours theses at Sapientia University – Romania (supervision).

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ORGANISATION OF SCIENTIFIC MEETINGS

- 2015 -2017 “Biogeography Discussion Group” at Trinity College Dublin, a bi-weekly meeting of researchers across the disciplines of Geography, Geology, Botany and Zoology who share common interest in Biogeography and Macroecology (chair)
- 2014 – 2015 Organizing Committee of Discover Research Dublin 2015 in the Zoology Department at Trinity College Dublin, European Researcher’s Night (chair)
- 2014 – 2015 Organizing Committee of the 3rd Annual School of Natural Sciences Lightning Talks 2015 in Trinity College Dublin (chair)
- 14/08/2013 “IGN 14 *New Approaches in Spatial Plant Population Dynamics – Population Ecology Is Everywhere!*” Ignite session at the 99th Ecology Society of America Annual Meeting (August 10 - 15, 2014), Sacramento, California; 150 participants (moderator)

INSTITUTIONAL RESPONSIBILITIES

- 2014 – 2015 School of Natural Sciences **Postdoc representative**, Trinity College Dublin – Ireland, including involvement in the School of Natural Sciences Research Committee (http://www.naturalscience.tcd.ie/research/all_postdocs.php);

COMMISSIONS OF TRUST

- 2009- **Manuscript reviewer**: more than 15 journals, including American Naturalist, Biological Conservation, Ecology Letters, Science, Ecography, Oecologia etc.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES (selected)

- 2015- The International Biogeography Society
2014 - British Ecological Society and Irish Ecological Association
2012 - European Dry Grassland Group
2007 – 2009 International Society of Conservation Biology

MAJOR COLLABORATIONS

- Prof. Yvonne Buckley **Spatial demography**, Trinity College Dublin, Ireland (5 papers, in prep.)
- Prof. Antoine Guisan **Spatial ecology**, University of Lausanne (3 papers, in prep.)
- Dr. Olivier Broennimann **Spatial ecology**, University of Lausanne (3 papers, in prep.)
- Dr. Roberto Salguero-Gómez **Demography**, University of Queensland (Australia) and Max Planck Society (Germany) (2 papers, in prep.)
- Dr. Amy Angert **Spatial ecology**, Department of Botany, University of British Columbia, Vancouver, Canada (2 papers, in prep.)

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- Prof. Roy Turkington **Biodiversity patterns and processes**, Department of Botany, University of British Columbia, Vancouver, Canada (1 paper)
- Dr. María Begoña García **Population dynamics**, Instituto Pirenaico de Ecología (CSIC), Spain (1 paper)
- Prof. Mária Höhn **Phylogeography and Population Genetics**, Department of Botany, Corvinus University of Budapest, Hungary (2 papers)

Industry & Non-Governmental Organization partnerships

2010 - Appreciation of mountain meadows

Global Environment Facility Small Grants Programme

2011-2012 - High Nature Value farmlands in Romania

European Forum on Nature Conservation and Pastoralism and Pogány-havas Association

2009-2011 - Mountain hayfields - hotspots of biodiversity and traditional culture

Global Environment Facility Small Grants Programme

2009 - High Conservation Value Forests

WWF International – Danube-Carpathian Programme

2007-2008 - Biodiversity inventory and establishment of a new nature reserve in Harghita Mountains

Rufford Small Grants for Nature Conservation (project leader)

2005-2006 - Green steps for biodiversity conservation in the marsh area of Olt River Meadow

Global Environment Facility Small Grants Programme

2004-2005 - Ecosystem research and sustainable conservation of Vârghis Gorge nature reserve

Rufford Small Grants for Nature Conservation

LANGUAGE SKILLS

Hungarian (mother tongue), Romanian (advanced level), English (upper intermediate), French (intermediate)