

CURRICULUM VITAE

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RESEARCH INTERESTS

I am a spatial ecologist with a main focus on developing and improving spatially explicit, global models of population performance and persistence across species' geographic ranges. Recently I have tested the ability of presence-only climate models to predict demographic processes and extinction risk of plant populations worldwide. My current project focuses on how the position and geometry of suitable habitat fragments within a species' range interact with life history, demography and organismal movement to modulate population persistence patterns.



POSITIONS

- 2017 - 2018 **Postdoctoral Research Fellow**, School of Natural Sciences, Trinity College Dublin, Ireland (third postdoc position)
- 2015 –2017 **Marie Skłodowska-Curie Postdoctoral Research Fellow**, School of Natural Sciences, Trinity College Dublin, Ireland (second postdoc position)
- 2014 –2015 **Postdoctoral Research Fellow**, School of Natural Sciences, Trinity College Dublin, Ireland (first postdoc position)
- 2012 –2013 **Research Associate**, Department of Botany, University of British Columbia, Vancouver, Canada (honorary position)
- 2010 – 2012 **Visiting Scientist**, Department of Botany, University of British Columbia, Vancouver, Canada (honorary position)
- 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

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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)

PRESTIGE

INVITED TALKS

- **Anna M Csergő** - "*The geography of habitat suitability*". University of Lausanne, Switzerland, 21 November 2017, seminar speaker
- **Anna M Csergő** - "*The geography of plant vulnerability under global environmental changes*". University of Sheffield, UK, 8 November 2017, seminar speaker
- **Anna M Csergő** et al. - "*Climat suitability constrains demographic strategies*" - BIEN Group Workshop Tucson, University of Arizona, Tucson, Arizona, 19 January 2017, research highlight
- 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, plenary talk (speaker: YB)

INVITED COMMENTARY PAPERS

Buckley YM, Csergő AM (2017) Predicting invasion winners and losers under climate change. PNAS 2017 114 (16) 4040-4041 doi: 10.1073/pnas.1703510114

COMMISSIONS OF TRUST

2009- **Manuscript reviewer:** more than 20 journals, including American Naturalist, Biological Conservation, Ecology Letters, Science, Ecography, Oecologia etc.

2015- **Steering committee member** of PLANTPOPNET Global Network (<http://www.plantpopnet.com/>)

2017 - **Editorial board:** Acta Botanica Hungarica (<http://akademiai.com/loi/034>), Botanical Contributions (http://contributii_botanice.reviste.ubbcluj.ro/en/)

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);

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SCIENCE COMMUNICATION

PEER-REVIEWED PUBLICATIONS

In preparation

- Csergő AM*, Broennimann O*, Petitpierre B, and Buckley Y*, Guisan A*, The geography of ecological optimality (in prep.)
- Broennimann O*, Csergő AM*, and Guisan A*, Buckley YM*, Global patterns in species' geographic ranges: a spatial analysis of habitat distributions (in prep.)
- Csergő AM et al. The relative effect of geographic isolation: a test on mainland and island populations (in prep.)
- Csergő AM, Demeter L, Drivers of species and functional diversity in insular wetlands systems (in prep.)
- Bódis J, Jongejans E, Buckley Y and Csergő AM, Demographic responses of orchids to climate: signals from two sister species at their northern range limit (in prep.)
- Vassilev, K et al. The Romanian Grassland Database (RGD): historical background, current status and future perspectives (submitted, Phytocoenologia)

In review & in press

- Nagy K, Lengyel A, Kovács A, Türei D, Csergő AM, and Pinke Gy, Weed species composition of small-scale farmlands bear strong environmental signature (in review, Weed Research)

Published

- Maseyk FJF, Demeter L and Csergő AM, Buckley YM (2017) Effect of management on natural capital stocks underlying ecosystem service provision: a “provider group” approach Biodiv. Conserv. doi:10.1007/s10531-017-1406-9
- Csergő AM, Salguero-Gómez R, Broennimann O, Cou tts SR, Guisan A, Angert AL, Welk E, Stott I, Enquist BJ, McGill B, Svenning JC, Violle C, and Buckley YM (2017), Less favorable climates constrain demographic strategies in plants Ecol. Lett. 20: 969–980
- Cou tts SR, Salguero-Gómez R, Csergő AM, and Buckley YM (2016) Extrapolating demography with climate, proximity and phylogeny: approach with caution Ecol. Lett. 19 (12), 1429-1438
- Lee-Yaw, J. A., Kharouba, H. M., Bontrager, M., Mahony, C., Csergő, A. M., Noreen, A. M.E., Li, Q., Schuster, R. and Angert, A. L. (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

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- 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
- 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
- McCune JL, Harrower WL, Avery-Gomm S, Brogan JM, Csergő AM, Davidson LNK, Garani A, Halpin LR, Lipsen P, 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, Molnár E, García MB (2011) Dynamics of isolated *Saponaria bellidifolia* Sm. populations at northern range periphery. *Popul. Ecol.* 53: 393-403
- Csergő AM, Nemes Sz, Gafta D, Demeter L, Jakab S (2009) Two-scale modelling of *Saponaria bellidifolia* Sm. (Caryophyllaceae) abundance on limestone outcrops from its northern range periphery (Southeastern Carpathians). *Plant Ecol.* 203(2): 229-242
- Csergő AM, Schönswetter P, Mara Gy, Deák T, Boşcaiu N, Höhn M (2009) 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

TALKS and POSTERS

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

ORGANISATION and CHAIRING OF SCIENTIFIC MEETINGS

- 2017 PLANTPOPNET (<http://www.plantpopnet.com/>) Workshop, Trinity College Dublin, Ireland (organising committee member); unnamed author to supporting Science Foundation Ireland workshop grant (7000 EUR granted to Yvonne Buckley)
- 2015-2017 “Biogeography Working 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)
- 2016-2017 Talk sessions at Biol16 Switzerland (2016), and “Global Change Ecology” Section of the International Biogeography Meeting in Tucson, Arizona (2017) (session chair)
- 2014 – 2015 Discover Research Dublin 2015 in the Zoology Department at Trinity College Dublin, European Researcher’s Night (chair of organising committee)

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- 2014 – 2015 The 3rd Annual School of Natural Sciences Lightning Talks 2015 in Trinity College Dublin (chair of organising committee)
- 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)

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.)
- 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)

LANGUAGE SKILLS

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