Dr. Marina (Maryna) Golivets

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CURRENT APPOINTMENT

May 2019 – present Post-Doctoral Researcher, Helmholtz-Centre for Environmental Research – UFZ, Halle, Germany. Developing future scenarios for biological invasions ("AlienScenarios")
Supervisors: Dr. Ingolf Kühn, Dr. Sonja Knapp

EDUCATION

- **2014 – 2019 Doctor of Philosophy, University of Vermont, Burlington, VT, USA**
  Natural Resources, ***GPA 3.95***
  Thesis: Uncovering the Drivers of Non-Native Plant Invasions Using Ecological Data Synthesis
  Advisor: Dr. Kimberly F. Wallin
- **2009 – 2011 Master of Science, Swedish University of Agricultural Sciences (SLU), Alnarp, Sweden**
  Forest Management, Euroforester Program
  Advisor: Dr. Per-Magnus Ekö
- **2009 – 2010 Master of Science, National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine**
  Urban Forestry and Landscape Architecture, ***with distinction***
  Advisor: Dr. Viktor Maurer
- **2005 – 2009 Bachelor of Science, National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine** Ornamental Horticulture, ***with distinction***
  Advisor: Dr. Viktor Maurer

RESEARCH EXPERIENCE

- **2015 – 2017 University of Vermont, Burlington, VT, USA**
  Graduate Research Assistant
- **2011 – 2014 Institute for Evolutionary Ecology, The National Academy of Sciences of Ukraine, Kyiv, Ukraine**
  Research Assistant
- **2012 – 2013 Ukrainian Laboratory of Quality and Safety of Agricultural Products, National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine**
  Research Assistant

TEACHING EXPERIENCE

- **2017 University of Vermont, Burlington, VT, USA**
  Lecturer
  FOR 295: Forest Ecosystem Health (Co-taught with Dr. Wallin in fulfillment of the teaching requirement for doctoral students)
- **2017 University of Vermont, Burlington, VT, USA**
  Invited lecture on multilevel meta-analysis using Stan
  PBIO 294: Ecological Modeling
- **2015 University of Vermont, Burlington, VT, USA**
  Graduate Teaching Assistant
  WFB 224: Conservation Biology
- **2014 University of Vermont, Burlington, VT, USA**
  Graduate Teaching Assistant
  NR 205: Ecosystem Management

PROFESSIONAL TRAINING

- **2017 iDiv Summer School, Leipzig, Germany**
  "Synthesising and Modelling Biodiversity Data"
- **2017 The Institute for Statistics Education**
  Online course in Bayesian hierarchical and multilevel modeling
- **2014 COST Action FP1204 Training School, Alnarp, Sweden**
  "Contemporary Research in Urban Forestry"
- **2013 European Forest Institute Winter and Summer School, Belin-Beliet, France and Pichl, Austria**
  "Sustaining Multiple Values in Managed Forests"

AWARDS, GRANTS AND SCHOLARSHIPS

- 2019 EMAPi 15 Second Best Conference Talk Award
- 2018 UVM RSENR Graduate Programs Outstanding Research and Scholarship Award
- 2017 iDiv Travel Grant (~$2,000)
- 2016 The University of Vermont Graduate Student Senate Mini Grant ($200)
- 2009 IKEA scholarship for Euroforester graduate program studies (SEK 70,000)
- 2007 – 2008 Ukrainian Government's scholarship for excellent achievements in higher education (monthly stipend totalling in ~UAH 17,000)

PUBLICATIONS

1. Amano, T., Berdejo-Espinola, V., Akasaka, M., de Andrade Jr., M. A., Blaise, N., Checco, J., Çilingir, F. G., Citegetse, G., Corella Tor, M., Drobniak S. M., Giakoumi, S., **Golivets, M.**, ... & Zamora-Gutierrez, V. (2022, January 21). The role of non-English-language science in informing national biodiversity assessments. *EcoEvoRxiv*, https://doi.org/10.32942/osf.io/jk429

2. Novoa A., Moodley D., Catford J. A., **Golivets M.**, Bufford J., Essl F., Lenzner B., Pattison Z., Pyšek P. 2021. Global costs of plant invasions must not be underestimated. *NeoBiota 69*: 75-78.

3. Amano, T., Berdejo Espinola, V., Christie, A.P., Willott, K., Akasaka, M., Báldi, A., Berthinussen, A., Bertolino, S., Bladon, A. J., Chen, M., Choi, C.-Y., Bou Dagher Kharrat, M., Oliveira, L. G., Farhat, P., **Golivets, M.**, . . . & Sutherland, W. J. (2021). Tapping into non-English-language science for the conservation of global biodiversity. *PLoS Biology 19*: e3001296.

4. Haubrock P. J., Turbelin A. J., Cuthbert R. N., Novoa A., Taylor N. G., Angulo E., Ballesteros-Mejia L., Bodey T. W., Capinha C., Diagne C., Essl F., **Golivets, M.**, . . . & Courchamp F. (2021). Economic costs of invasive alien species across Europe. In: Zenni R. D., McDermott S., García-Berthou E., Essl F. (Eds) The economic costs of biological invasions around the world. *NeoBiota 67*: 153-190.

5. Haubrock, P. J., Cuthbert, R. N., Sundermann, A., Diagne, C., **Golivets, M.**, & Courchamp, F. (2021) Economic costs of invasive species in Germany. In: Zenni R. D., McDermott S., García-Berthou E., Essl F. (Eds) The economic costs of biological invasions around the world. *NeoBiota 67*: 225-246.

6. Angulo, E., Diagne, C., Ballesteros-Mejia, L., Akulov, E. N., Dia, C. A. K. M., Adamjy, T., Banerjee, A.-K., Capinha, C., Duboscq, V. G., Dobigny, G., Golivets, M., . . . & Courchamp, F. (2021). Non-English languages enrich scientific knowledge: the example of economic costs of biological invasions. *Science of the Total Environment 775*: 144441.

7. Lenzner, B., Latombe, G., Capinha, C., Bellard, C., Courchamp, F., Diagne, C., Dullinger, S., **Golivets, M.**, ... & Leung, B. (2020). What will the future bring for biological invasions on islands? An expert-based assessment. *Frontiers in Ecology and Evolution 8*: 280. https://doi.org/10.3389/fevo.2020.00280.

8. **Golivets, M.**, Woodall, C. W., & Wallin, K. F. (2019). Functional form and interactions of the drivers of understory non-native plant invasions in northern US forests. *Journal of Applied Ecology 56*(12): 2596–2608.

9. Thom, D., **Golivets, M.**, Edling, L., Meigs, G. W., Gourevitch, J. D., Sonter, L. J., Galford, G. L., & Keeton, W. S. (2019). The climate sensitivity of carbon, timber, and species richness covaries with forest age in boreal–temperate North America. *Global Change Biology 25*(7): 2446–2458.

10. **Golivets, M.**, & Wallin, K. F. (2018). Neighbor tolerance, not suppression, provides competitive advantage to non-native plants. *Ecology Letters, 21*(5): 745–759.

11. **Golivets, M.**, & Bihun, Y. (2016). Patterns of plant species diversity in deciduous woodlands of Kyiv, Ukraine. *Urban Ecosystems, 19*(1): 489–503.

12. Burda, R., **Golivets, M.**, & Petrovych, O. (2015). Alien species in the flora of the nature reserve fund of the flatland part of Ukraine. *Russian Journal of Biological Invasions, 6*(1): 6–20.

13. **Golivets, M.** (2014). Adaptive strategy of *Impatiens parviflora* DC. (Balsaminaceae) in the secondary range. II. Vitality structure of populations and ontogenetic strategy of the species. *Ukrainian Botanical Journal, 71*(3): 317–323. (in Ukrainian with English summary)

14. **Golivets, M.** (2014). Adaptive strategy of *Impatiens parviflora* DC. (Balsaminaceae) in the secondary range. I. Patterns of population organization along the environmental gradient. *Ukrainian Botanical Journal, 71*(2): 161–172. (in Ukrainian with English summary)

15. **Golivets, M.** (2014). Variation in quantitative seed traits of *Echinocystis lobata* (Minchx.) Torr. et A. Gray (Cucurbitaceae). *Modern Phytomorphology, 6*: 43–44.

16. **Golivets, M.** (2014). Ecological and biological determination of invasion success of nonnative plant species in urban woodlands with special regard to short-lived monocarps. *Urban Ecosystems, 17*(1): 291–303.

17. Pashkevych, N., Burda, R., **Golivets, M.**, & Petrovych, O. (2014). Assessment of the distribution of alien plant species across the habitats of the Ukrainian Forest Steppe. *Biodiversity: Research and Conservation, Suppl. 1*: 75.

INVITED TALKS AND PRESENTATIONS

- A macroecological view on functional trait distribution of native and alien plants under future environmental change in Cenrtal Europe. *Oral presentation.* NEOBIOTA 2020, Vodice, Croatia
- Neighbor tolerance, not suppression, provides competitive advantage to non-native plants. EMAPi 15, 2019. *Oral presentation.* Prague, Czech Republic
- Neighbor tolerance, not suppression, provides competitive advantage to non-native plants. 29th Interagency Forum on Invasive Species, 2018. *Invited talk.* Annapolis, MD, USA
- Patterns of nonnative invasive plant species diversity in gypsy moth defoliated forests. 8th Eastern CANUSA conference, 2016. *Oral presentation.* Burlington, VT, USA
- Does defoliation of native forests by a nonnative insect facilitate invasion of nonnative plants more than defoliation by a native insect? ESA Annual Meeting, 2016. *Oral presentation.* Fort Lauderdale, FL, USA
- Does a nonnative invasive defoliator facilitate invasion of nonnative invasive plants more than a native defoliator? 27th Interagency Forum on Invasive Species, 2016. *Poster presentation.* Annapolis, MD, USA
- Patterns of non-native plant diversity: A case study of the urban forest of Kyiv. 17th European Forum on Urban Forestry, 2014. *Oral presentation.* Lausanne, Switzerland
- Level of plant invasion in urban forests of Kyiv, Ukraine. Youth and Progress of Biology, 2014. *Oral presentation.* Lviv, Ukraine
- Phenology of *Echinocystis lobata* (F. Minchx.) Torr. & Gray (Cucurbitaceae) in the secondary range. The Role of Botanical Gardens in Conservation and Enrichment of Biodiversity, 2013. *Oral presentation.* Kyiv, Ukraine
- Plant diversity of Kyiv urban woodlands: The current state and future implications. 16th European Forum on Urban Forestry, 2013. *Poster presentation.* Milan, Italy
- Integrative approach to classifying habitats in urban forests. Biotopes (habitats) of Ukraine: Scientific Basis of Research and Inventory Results, 2012. *Oral presentation.* Kyiv, Ukraine
- Interpopulation differentiation of the alien species *Impatiens parviflora* DC. (Balsaminaceae) in woodland phytocoenoses of Kyiv. Modern Methodology in Biological Research: Population Approach, 2012. *Oral presentation.* Ivano-Frankivs'k, Ukraine
- Distribution of *Impatiens parviflora* DC. (Balsaminaceae) and vernal geophytes in forest phytocoenoses of Kyiv. Synanthropization of Vegetation of Ukraine, 2012. *Oral presentation.* Pereyaslav-Khmelnyts'kyi, Ukraine

PROFESSIONAL SKILLS

- **Data Analysis:** Bayesian inferential modeling, multilevel and spatial regression analysis, meta-analysis, predictive modeling using machine learning techniques, web scraping,
- **Programming:** R, Stan, JAGS, ArcGIS, Git

- **Data Collection:** Extensive field experience in surveying vegetation and laboratory experience in measuring soil N and P

- **Languages:** Ukrainian (native), English (fluent), Russian (fluent), German (beginner)