

## SCIENTIFIC SUPERVISORS' PROFILE

### Information about supervisor:

Name: Kalev Sepp

Date of birth: 17/05/1961

Position: Professor, Head of Department

Targeted- and core-financed projects, grants and other projects managed (as disposer of the source of financing) in the year of application; the annual duration and financial scope thereof:

- Support for the Natura 2000 Biogeographical Process, EU Commission, 2021-2024, 78,000€
- Biodiversa project „Scenarios for Agricultural Landscapes' Biodiversity and Ecosystem Services" SABLES, (2019-2022), 100,000 €;
- Co-creating cultural narratives for sustainable rural development, (2021-2024), ETAG\_JPICH – Cultural Heritage, Identities & Perspectives: Responding to Changing Societies (CHIP), 100,000 €;
- Urban Resilience and Adaptation for India and Mongolia: curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions (URGENT). ERASMUS +, (2021-2023), 35,000€;
- Multilevel Local, Nation- and Regionwide Education and Training in Climate Services, Climate Change Adaptation and Mitigation (ClimEd), ERASMUS +, (2021-2023), 78,000 €
- Marine Coastal and Delta Sustainability for Southeast Asia (MARE), ERASMUS +, (2019-2022), 144,000€;
- Integrated Doctoral Program for Environmental Policy, Management and Technology (INTENSE), ERASMUS +, (2018-2021), 278,000 €;
- Sustainable Natural Resource Use in Arctic and High Mountainous Areas (SUNRAISE), ERASMUS +, (2018-2021), 71,000 €.

Participation in projects as (senior) research staff in the year of application; the annual duration and financial scope thereof:

Integrating RENEwable energy and Ecosystem Services in environmental and energy policies as indicated in the annexes (IRENES, Europe Interreg, (2019-2022), 126,00 €.

Publications featured in the [Web of Science](#) and/or [Scopus](#) databases in the years 2016–2020:

Bunce, R.G.H.; Pungar, D.; Villoslada, M.; Raet, J.; Kaart, T.; **Sepp, K.** (2020). A survey of habitats on agricultural land in Estonia: I Construction and validation of the database using the botanical field data. *Global Ecology and Conservation*, 22, e01007. <https://doi.org/10.1016/j.gecco.2020.e01007>

Ojaste, I.; Leito, A.; Suorsa, P.; Hedenström, A.; **Sepp, K.**; Leivits, M.; Sellis, U.; Väli, Ü. (2020). From northern Europe to Ethiopia: long-distance migration pattern of Common cranes (*Grus grus*). *Ornis Fennica*, 97, 12–25. <https://www.ornisfennica.org/pdf/latest/19Ojaste.pdf>

Villoslada, M.; Bergamo, T. F.; Ward, R. D.; Burnside, N. G.; Joyce, C. B.; Bunce, R. G. H.; **Sepp, K.** (2020). Fine scale plant community assessment in coastal meadows using UAV based multispectral data. *Ecological Indicators*, 111, 105979. <https://doi.org/10.1016/j.ecolind.2019.105979>

- Vinogradovs, Ivo; Villoslada, Miguel; Nikodemus, Olgerts; Ruskule, Anda; Veidemane, Kristina; Gulbinas, Justas; Morkvenas, Žymantas; Kasparinskis, Raimonds; **Sepp, Kalev**; Järv, Henri; Klimask, Jaak; Zariņa, Anita; Brūmelis, Guntis; Dotas, Arvydas; Kryžanauskas, Audrius (2020). Integrating ecosystem services into decision support for management of agroecosystems: Viva Grass tool. *One Ecosystem*, 5 (e53504). <https://doi.org/10.3897/oneeco.5.e53504>
- Jongman, Rob H.G.; Múcher, Caspar A.; Bunce, Robert G.H.; Lang, Mait; **Sepp, Kalev** (2019). A Review of Approaches for Automated Habitat Mapping and their Potential Added Value for Biodiversity Monitoring Projects. *Journal of Landscape Ecology*, 12 (3), 53–69. <https://doi.org/10.2478/jlecol-2019-0015>
- Ojaste, I.; Leito, A.; Suorsa, P.; Hedenström, A.; **Sepp, K.**; Leivits, M.; Truu, J.; Sellis, U. & Väli, Ü. (2019). From northern Europe to Ethiopia: long-distance migration pattern of Common cranes (*Grus grus*). *Ornis Fennica* 98: 00-00.
- Van der Sluis, Theo; Arts, Bas; Kok, Kasper; Bogers, Marion; Busck, Anne G.; **Sepp, Kalev**; Loupa-Ramos, Isabel; Pavlis, Vangelis; Geamana, Nicoleta; Crouzat Emilie (2019). Drivers of European landscape change: stakeholders' perspectives through Fuzzy Cognitive Mapping. *Landscape Research*, 44(4), 458-476. <https://doi.org/10.1080/01426397.2018.1446074>
- Villoslada Peciña, Miguel; Ward, Raymond D.; Bunce, Robert G. H.; **Sepp, Kalev**; Kuusemets, Valdo; Luuk, Ott (2019). Country-scale mapping of ecosystem services provided by semi-natural grasslands. *Science of the Total Environment*, 661, 212–225. [10.1016/j.scitotenv.2019.01.174](https://doi.org/10.1016/j.scitotenv.2019.01.174).
- Tomson, P.; Kaart, T.; **Sepp, K.** (2018). Role of 19th-century rotational slash-and-burn cultivation in the formation of boreal forest vegetation and implications for management. *Forest Ecology and Management*, 409, 845–862. [10.1016/j.foreco.2017.12.005](https://doi.org/10.1016/j.foreco.2017.12.005).
- Kikas, Tambet; Bunce, Robert G. H.; Kull, Ain; **Sepp, Kalev** (2018). New high nature value map of Estonian agricultural land: Application of an expert system to integrate biodiversity, landscape and land use management indicators. *Ecological Indicators*, 94 (2), 87–98. [10.1016/j.ecolind.2017.02.008](https://doi.org/10.1016/j.ecolind.2017.02.008).
- Poska, Anneli; Väli, Vivika; Tomson, Pille; Vassiljev, Jüri; Kihno, Kersti; Alliksaar, Tiiu; Villoslada, Miguel; Saarse, Leili; **Sepp, Kalev** (2018). Reading past landscapes: combining modern and historical records, maps, pollen-based vegetation reconstructions, and the socioeconomic background. *Landscape Ecology*, 33, 529–546. [10.1007/s10980-018-0615-2](https://doi.org/10.1007/s10980-018-0615-2).
- Mander, Ülo; Kull, Ain; Uemaa, Evelyn; Mõisja, Kiira; Külvik, Mart; Kikas, Tambet; Raet, Janar; Tournebize, Julien; **Sepp, Kalev** (2018). Green and brown infrastructures support a landscape-level implementation of ecological engineering. *Ecological Engineering*, 120, 23–35. [10.1016/j.ecoleng.2018.05.019](https://doi.org/10.1016/j.ecoleng.2018.05.019).
- Takkis, Krista; Kull, Tiiu; Hallikma, Tiit; Jaksi, Piia; Kaljund, Karin; Kauer, Karin; Kull, Thea; Kurina, Olavi; Külvik, Mart; Lanno, Kaire; Leht, Malle; Liira, Jaan; Melts, Indrek; Pehlak, Hannes; Raet, Janar; Sammet, Kaarel; **Sepp, Kalev**; Väli, Ülo; Laanisto, Lauri (2018). Drivers of species richness and community integrity of small forest patches in an agricultural landscape. *Journal of Vegetation Science*, 29 (6), 978–988. [10.1111/jvs.12689](https://doi.org/10.1111/jvs.12689).
- Villoslada, Miguel; Vinogradovs, Ivo; Ruskule, Anda; Veidemane, Kristina; Nikodemus, Olgerts; Kasparinskis, Raimonds; **Sepp, Kalev**; Gulbinas, Justas (2018). A multitiered approach for grassland ecosystem services mapping and assessment: The Viva Grass tool. *One Ecosystem*, 3 (e25380). [10.3897/oneeco.3.e25380](https://doi.org/10.3897/oneeco.3.e25380).
- Burkhard, Benjamin; Maes, Joachim; Potschin-Young, Marion B.; Santos-Martín, Fernando; Geneletti, Davide; Stoev, Pavel; Kopperoinen, Leena; Adamescu, Cristian Mihai; Esmail, Blal Adem; Arany, Ildikó; Arnell, Andy; Balzan, Mario; Barton, David N.; van Beukering, Pieter; Bicking, Sabine; Vieira Borges, Paulo Alexandre; Borisova, Bilyana; Braat, Leon; Brander, Luke M.; Bratanova-Doncheva, Svetla ... **Kalev Sepp**, Zulian, Grazia (2018). Mapping and assessing ecosystem services in the EU - Lessons learned from the ESMEALDA approach of integration. *One Ecosystem*, 3 (e29153). [10.3897/oneeco.3.e29153](https://doi.org/10.3897/oneeco.3.e29153).
- Villoslada, Miguel; Bunce, Robert G. H.; **Sepp, Kalev**; Jongman, Rob H. G.; Metzger, Marc J.; Kull, Tiiu; Raet, Janar; Kuusemets, Valdo; Kull, Ain; Leito, Aivar (2017). A framework for habitat monitoring and climate change modelling: construction and validation of the Environmental

Stratification of Estonia. *Regional Environmental Change*, 17, 335–349, 10.1007/s10113-016-1002-7.

Leito, Aivar; Leivits, Meelis; Leivits, Agu; Raet, Janar; Ward, Raymond; Ott, Ingmar; Tullus, Hardi; Rosenvald, Raul; Kimmel, Kai; **Sepp, Kalev** (2016). Black-headed gull (*Larus ridibundus* L.) – a keystone species in the lake bird community in primary forest-mire-lake ecosystem. *Baltic Forestry*, 22 (1), 34–45.

Tammepuu, Ants; Kaart, Tanel; **Sepp, Kalev** (2016). Emergency preparedness and response in ISO 14001 enterprises: an Estonian case study. *International Journal of Emergency Management*, 12 (1), 55–69, 10.1504/IJEM.2016.074879.

Kull, Tiiu; Selgis, Ulvi; Villoslada Peciña, Miguel; Metsare, Mirjam; Ilves, Aigi; Tali, Kadri; **Sepp, Kalev**; Kull, Kalevi; Shefferson, Richard P. (2016). Factors influencing IUCN threat levels to orchids across Europe on the basis of national red lists. *Ecology and Evolution*, 6 (17), 6245–6265, 10.1002/ece3.2363.

Ward, R.D.; Burnside, N.G.; Joyce, C.B.; **Sepp, K.** (2016). Importance of Microtopography in Determining Plant Community Distribution in Baltic Coastal Wetlands. *Journal of Coastal Research*, 32(5):1062-1070. DOI:10.2112/JCOASTRES-D-15-00065.1

Ward, R. D.; Burnside, N. G.; Joyce, C. B.; **Sepp, K.**; Teasdale, P. A. (2016). Improved modelling of the impacts of sea level rise on coastal wetlands plant communities. *Hydrobiologia*, 774 (1), 203–216, 10.1007/s10750-015-2374-2.

Järv, Henri; Kliimask, Jaak; Ward, Raymond; **Sepp, Kalev** (2016). Socioeconomic impacts of protection status on residents of national parks. *European Countryside*, 8 (2), 67–85.

Supervised defended PhD theses in the years 2016–2020 (name of the defender of the thesis and year of defence):

Miguel Villoslada Pecina 2020, (National Award winner for outstanding thesis)

Kaie Metsaots 2019

Ivar Ojaste 2019

Pille Tomson 2018

Nele Nutt 2017

Kadri Maikov, 2016

Supervised full time PhD students (name and year of admission), indicating the type of financing (state-financed, non-state-financed, DoRa Pluss):

Ricardo Martinez Prentice, 2020, supervisor, state-financed

Kaupo Kokamägi, 2019, supervisor, state-financed

Raul Sampaio de Lima, 2019, supervisor, DoRa Pluss

Kai-Yun Li, 2018, supervisor, state-financed

Thaisa Fernandes Bergamo, 2018, supervisor, DoRa Pluss

Siiri Külm, 2015, co-supervisor, state-financed

Diana Pungar, 2014, co-supervisor, state-financed

Henri Järv, 2013, supervisor, state-financed