

# Publications

Below are SCI and non-SCI articles, preprints, conference presentations and defended theses related to the research done in the Vegetation Ecology Lab; members of the lab are highlighted **in bold**. For all papers by David Zelený, see [his personal website](#).

## Preprints

- **Zelený D., Helsen K. & Lee Y.-N.** (submitted): Extending the CWM approach to intraspecific trait variation: how to deal with overly optimistic standard tests? bioRxiv, <https://doi.org/10.1101/2021.09.09.459685>
- **Helsen K., Lin T.-Y & Zelený D.\*** (submitted): Comparing trait syndromes between Taiwanese subtropical terrestrial and epiphytic ferns and lycophytes at the species and community level. bioRxiv, <https://doi.org/10.1101/2021.09.06.459074>

## Journal articles

- **Helsen K., Shen Y.-C., Lin T.-Y., Chen C.-F.,** Huang C.-M., Li C.-F. & **Zelený D.\*** (2022): Climate and soil differentially affect species, trait and diversity patterns of woody overstory and fern understory in a subtropical forest along an elevation gradient in Taiwan. *Journal of Vegetation Science*, 33:e13130. <https://doi.org/10.1111/jvs.13130>, [free to read pdf](#)
- **Chen C.-F.,** Li C.-F., Huang C.-M., Lin H.-Y. and **Zelený D.\*** (2022): Secondary succession on landslides in submontane forests of central Taiwan: environmental drivers and restoration strategies. *Applied Vegetation Science*, 25: e12635. <https://doi.org/10.1111/avsc.12635>, [free to read pdf](#)
- **Zelený D. & Lin P.-Y.** (2020): Using tea bags to estimate the rate of soil organic matter decomposition in a Taiwanese forest. *IAVS Bulletin*, 2020/3, 31-33. <https://doi.org/10.21570/BUL-202003-5>, [pdf](#), [video from the field](#)
- Chao A., Kubota Y., **Zelený D.**, Chiu C.-H., Li C.-F., Kusumoto B., Yasuhara M., Thorn S., Wei C.-L., Costello M.J. & Colwell R.K. (2020): Quantifying sample completeness and comparing diversities among assemblages. *Ecological Research*, 35, 292–314. <https://doi.org/10.1111/1440-1703.12102>
- **Zelený D.** (2018): Which results of the standard test for community weighted mean approach are too optimistic? *Journal of Vegetation Science* 29: 953–966. <https://doi.org/10.1111/jvs.12688>, [read-only pdf](#), [preprint on BioRxiv](#), [Plain language summary on vegsciblog.org](#), [blog post on blog.davidzeleny.net](#)

## Conference presentations

- **Zelený D., Lee Y.-N. & Wei S.** (2022): “Sun leaves” not always so sunny: light as confounding factor in intra-specific trait studies focused on woody species (International Association for Vegetation Science, 64rd Annual Symposium, Madrid, Spain, June 27-July 1, 2022, oral presentation)
- **Wei S. & Zelený D.** (2022): The influence of environmental factors and biotic interactions on the early-stage establishment of *Chamaecyparis obtusa* var. *formosana* seedlings in Taiwan.

- (International Association for Vegetation Science, 64rd Annual Symposium, Madrid, Spain, June 27-July 1, 2022, oral presentation, virtually)
- **Zelený D., Lin P.-Y., Huang C.-L.,** Li C.-F. & Hsieh C.-F. (2022): A consistent hump-shaped pattern of diversity-elevation relationship observed at different grain scales: a case study using woody species in Taiwan. (International Biogeography Society, 10th Biennial Conference, hybrid meeting on June 2-6 in Vancouver, Canada; oral presentation provided on demand virtually)
  - **Tseng Y.-P. & Zelený D.** (2022): Do subtropical montane cloud forests in Taiwan act as insular systems for woody species? (International Biogeography Society, 10th Biennial Conference, hybrid meeting on June 2-6 in Vancouver, Canada; oral presentation provided virtually, live)
  - **Lin P.-Y.,** Li C.-F. & **Zelený D.** (2022): Possible mechanisms explaining hump-shaped richness-elevation pattern of woody species in Taiwan. (International Biogeography Society, 10th Biennial Conference, hybrid meeting on June 2-6 in Vancouver, Canada; oral presentation provided on demand virtually)
  - **Huang C.-L. & Zelený D.** (2022): How well do available methods quantify the importance of assembly processes in ecological community data: a simulation approach (International Biogeography Society, 10th Biennial Conference, hybrid meeting on June 2-6 in Vancouver, Canada; oral presentation provided on demand virtually)
  - **Zelený D., Helsen K. & Lee Y.-N.** (2021): Extending the community-weighted mean approach to intraspecific trait variation: how to deal with overly optimistic standard parametric tests? (International Association for Vegetation Science, 63rd Annual Symposium, hosted virtually, September 20-23, 2021, oral presentation by David Zelený)
  - **Lee Y.-N. & Zelený D.** (2021): Effect of wind and soil conditions on inter- and intraspecific leaf trait variation of broadleaf trees in the cloud forest: a case study from Taiwan (International Association for Vegetation Science, 63rd Annual Symposium, hosted virtually, September 20-23, 2021, poster with a lightning talk by Yi-Nuo Lee)
  - **Lin P.-Y., Zelený D. & Li C.-F.** (2021): Woody species richness along elevation in Taiwan: patterns and mechanisms (International Association for Vegetation Science, 63rd Annual Symposium, hosted virtually, September 20-23, 2021, oral presentation by Po-Yu Lin)
  - **Tseng Y.-P. & Zelený D.** (2021): Do subtropical montane cloud forests in Taiwan act as insular systems for woody species? (International Association for Vegetation Science, 63rd Annual Symposium, hosted virtually, September 20-23, 2021, poster with lightning talk by Yu-Pei Tseng)
  - **Chen C.-F. & Zelený D.** (2021): Changes in species composition and plant functional traits during the landslide succession in high-mountain coniferous forest in central Taiwan (International Association for Vegetation Science, 63rd Annual Symposium, hosted virtually, September 20-23, 2021, oral presentation by Chien-Fan Chen)
  - **Zelený D., Shen Y.-C. & Li C.-F.** (2019): Effect of cloud frequency on the forest vegetation in Taiwan: what can we learn from the trait-based approach using evergreen broadleaf species? (International Association for Vegetation Science, 62th Annual Symposium, Bremen, Germany, July 14-19, 2019, oral presentation by David Zelený)
  - **Lin P.-Y.,** Li C.-F. & **Zelený D.** (2019): Diversity pattern of woody species along elevation in Taiwan: does the sample standardisation matter? (International Association for Vegetation Science, 62th Annual Symposium, Bremen, Germany, July 14-19, 2019, poster presentation by Po-Yu Lin)
  - **Lin T.-Y. & Zelený D.** (2019): Changes of community-level leaf traits of terrestrial and epiphytic ferns along an elevation gradient in Northeastern Taiwan. (International Association for Vegetation Science, 62th Annual Symposium, Bremen, Germany, July 14-19, 2019, poster presentation by Tsung-Yi Lin)
  - **Chen C.-F.,** Li C.-F. & **Zelený D.** (2019): Spontaneous regeneration of vegetation on landslides in low-elevation region in Central Taiwan. Environmental drivers and recommendations for restoration strategy. (International Association for Vegetation Science, 62th Annual Symposium,

- Bremen, Germany, July 14-19, 2019, poster presentation by Chien-Fan Chen)
- **Zelený D. & Lin T.-Y.** (2018): Changes in leaf traits along the elevation gradient in Taiwan: using ferns as a model plant group. Asian Symposium of Ferns & Lycophytes, Taipei, Taiwan, 16-18 October 2018, oral presentation by David Zelený) [www](#)
  - **Zelený D.** (2018): To test or not to test, that is the question: relating mean Ellenberg indicator values to ordination axes is an example of spurious correlation (International Association for Vegetation Science, 61th Annual Symposium, Bozeman, Montana, USA, July 22-27, 2018, oral presentation)
  - **Zelený D.** (2018): Importance of environment evaluated by constrained ordination depends on the completeness of sampling (Ecological Society of Japan, 65th Annual Meeting, Sapporo, March 15-18 2018, oral presentation) [www](#)
  - **Zelený D.** (2017): Community assembly along stress gradients: effect of cloud frequency and chronic-wind intensity on forest vegetation in Taiwan (Symposium of Ministry of Science and Technology, Taichung, Taiwan, November 17 2017, oral presentation) [www](#)
  - **Zelený D.** (2017): Bias in community-weighted mean analysis of plant functional traits and species indicator values (International Association for Vegetation Science, 60th Annual Symposium, Palermo, Italy, June 20-24 2017, oral presentation)
  - **Zelený D.** (2016): Jumping on the bandwagon of beta diversity partitioning (NTU & NTNU Joint Symposium on Ecology and Evolutionary Biology, Taipei, Taiwan, 22 May 2016, oral talk)
  - **Zelený D., Li C.-F. et al.** (2016): Beta diversity pattern of forest vegetation along elevation in Taiwan: what have we learned so far? (Annual Meeting of the Taiwan Ecological Research Network in Jiji, Taiwan, 15-16 April 2016, oral presentation by David Zelený)

## Master theses (defended)

- Yi-Nuo Lee (Enoch), 李以諾 (2021), *Importance of interspecific and intraspecific variation of plant functional traits: a case study in the Lalashan Forest Dynamics Plot* [in English] <https://doi.org/10.6342/NTU202104070>
- Po-Yu Lin, 林柏佑 (2021), *Woody species richness along elevation in Taiwan: patterns and mechanisms* [in English]] <https://doi.org/10.6342/NTU202101126>
- Tsung-Yi Lin, 林宗儀 (2019): *The pattern of fern and lycophyte species composition and community-level fern leaf functional traits along an elevation gradient in Northeastern Taiwan* [in English] <https://doi.org/10.6342/NTU201903764>
- Kenneth Huang, 黃駿鏗 (2019): *Mean family age and community phylogenetic structures of Taiwanese woody vegetation along elevation* [in English] (co-advised together with Dr Chun-Neng Wang, 王俊能) <http://dx.doi.org/10.6342/NTU201902042>
- Yen-Cheng Shen, 沈彥成 (2019): *Relationship between functional traits of woody species and elevation gradient: a case study from forest vegetation in Northern Taiwan* [in English] (co-advised together with Prof Wen-Yuan Kao, 高文媛) <https://doi.org/10.6342/NTU201900071>

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