

Curriculum Vitae

Name Dr. Peter Zander

Contact **Head Working Group „Farm Economics and Ecosystem Services“**
Research Area 3 “Agricultural Landscape Systems “
Leibniz Centre for Agricultural Landscape Research (ZALF)
Eberswalder Str. 84, 15374 Müncheberg
Phone: +49-33432-82-214
Email: Peter.Zander@zalf.de



Research profile

Peter Zander is head of the working group “Farm Economics and Ecosystem Services” within the research area “Agricultural Landscape Systems” at ZALF. He is interested in the sustainable intensification of agricultural production systems and has extensive experience in farm-level bio-economic modelling of agricultural land use including renewable energies. He coordinates the BiodivERSa project SALBES and leads work packages in divCROP, DAKIS, BROMMI, BIODIVERSIFY, AGROMIX and others. He coordinated Work Packages from Legume Futures (FP7), Climate-Café (EraNet plus), Löbestein and NaLaMa-nT (German Federal Ministry of Education and Research). Dr Zander obtained his degree in agriculture and his doctorate in Production Ecology and Resource Conservation from Wageningen University.

Education

2003 PhD in Production Ecology and Resource Conservation, Wageningen University
1991 ICRA - International Centre for development-oriented Research in Agriculture, Montpellier - Course on International Agricultural Research
1991 MSc Diploma in Agricultural Sciences at Wageningen University

Research Experience

Since 2018 Head of Research Group “Farm Economics and Ecosystem Services”
Since 2003 Head of Research Group “Economics of sustainable land use”
Since 1992 Research fellow at the Leibniz Centre for Agricultural Landscape Research (ZALF)

- 2020 – present Research Area 3 “Agricultural Landscape Systems”
- 2018 – 2019 Research Area 2 “Land Use and Governance”
- 1998 – 2017 Institute of Socio-Economics
- 1992 – 1997 Institute of Land Use Systems

Funding

2021 – 2023 CropDiv - Cropping system diversification to increase the resilience of farming systems
2020 – 2025 BROMMI - Biosphere reserves as model landscapes for insect protection (BfN)
2020 – 2023 BIODIVERSIFY- Boost ecosystem services through high Biodiversity-based Mediterranean Farming sYstems (PRIMA)
2020 – 2024 AGROMIX - AGROforestry and MIXed farming systems - Participatory research to drive the transition to a resilient and efficient land use in Europe (H2020)
2019 – 2022 SALBES – Scenarios for Agricultural Landscapes’ Biodiversity and Ecosystem Services (BMBF, Belmont-Biodiversa Forum – ERA-Net)
2019 – 2025 DAKIS - Digital Agricultural Knowledge and Information System (BMBF, Agarsysteme der Zukunft)
2020 – 2023 FUFAPRO - Development and regional establishment of dual harvesting and processing of feed legumes, using fiber-containing stem parts for natural fiber-reinforced plastics and leaf mass for high-quality protein uses (BMBF)

Selected Professional Activities and Memberships

- Since 2014 Member of „Gesellschaft für Wirtschafts- und Sozialw. des Landbaues e.V.“
Since 1995 Member of „Gesellschaft für Informatik in der Land- Forst- und Ernährungsw. e.V.“
Since 2015 Member of the Editorial Advisory Board of “Agricultural Systems”

Articles listed 61. Sum of times cited: 1509. h-Index: 23 (Scopus Nov.2021)

ORCID: <http://orcid.org/0000-0003-4905-2971>

Recent and key publications

1. **Bethwell, C., Burkhard, B., Daedlow, K., Sattler, C., Reckling, M., Zander, P.** (2021) Towards an enhanced indication of provisioning ecosystem services in agro-ecosystems. *Environmental Monitoring and Assessment* 193, Supplement 1, Article 269.
2. **Dam, T. H. T.,** Tur-Cardona, J., Speelman, S., Amjath-Babu, T. S., Sam, A. S., **Zander, P.** (2021) Incremental and transformative adaptation preferences of rice farmers against increasing soil salinity - evidence from choice experiments in north central Vietnam. *Agricultural Systems* 190, Article 103090.
3. Knierim, A., Bieling, C., **Zander, P.** (2021) How researchers shape the construction of landscape change - insights from a scenario study. *Landscape Research* 46, 8, 1057-1070
4. Li, Q., **Zander, P.** (2020) Resilience building of rural livelihoods in PES programmes: a case study in China's loess hills. *Ambio* 49, 4, 962-985.
5. Schuler, J., Adelhart Toorop, R., Willaume, M., Vermue, A., Schläfke, N., Uthes, S., **Zander, P.,** Rossing, W. (2020) Assessing climate change impacts & adaptation options for farm performance using bio-economic models in southwestern France. *Sustainability* 12, 18, Article 7528.
6. Ndah, H. T., Probst, L., Kaweesa, S., Kuria, P., Mkomwa, S., Rodrigues, P., Basch, G., Uckert, G., Sieber, S., Knierim, A., **Zander, P.,** Schuler, J. (2020) Improving farmers' livelihoods through conservation agriculture: options for change promotion in Laikipia, Kenya. *International Journal of Agricultural Sustainability* 18, 3.
7. **Dam, T. H. T., Amjath Babu, T. S., Bellingrath-Kimura, S. D., Zander, P.** (2019) The impact of salinity on paddy production and possible varietal portfolio transition: a Vietnamese case study. *Paddy and Water Environment* 17, 4, 771-782.
8. Uthes, S., Heyer, I., Kaiser, A., **Zander, P.,** Bockstaller, C., Desjeux, Y., Keszthelyi, S., Kis-Csatári, E., Molnar, A., Wrzaszcz, W., Juchniewicz, M. (2019) Costs, quantity and toxicity: comparison of pesticide indicators collected from FADN farms in four EU-countries. *Ecological Indicators* 104, 695-703.
9. Vilvert, E., Lana, M., **Zander, P.,** Sieber, S. (2018) Multi-model approach for assessing the sunflower food value chain in Tanzania. *Agricultural Systems* 159, 103-110.
10. Reckling, M., Bergkvist, G., Watson, C. A., Stoddard, F. L., **Zander, P.,** Walker, R., Pristeri, A., Toncea, I., Bachinger, J. (2016) Trade-offs between economic and environmental impacts of introducing legumes into cropping systems. *Frontiers in Plant Science* 7, Article 669.
11. Preißel, S., **Zander, P.,** Knierim, A. (2017) Sustaining farming on marginal land: farmers' convictions, motivations and strategies in northeastern Germany. *Sociologia Ruralis* 57, Supplement S1, 682-708.
12. **Zander, P., Amjath Babu, T. S., Preißel, S., Reckling, M., Bues, A., Schläfke, N.,** Kuhlman, T., **Bachinger, J., Uthes, S.,** Stoddard, F., Murphy-Bokern, D., Watson, C. (2016) Grain legume decline and potential recovery in European agriculture: a review. *Agronomy for Sustainable Development* 36, 2, Article: 26.
13. Glemnitz, M., **Zander, P.,** Stachow, U. (2015): Regionalizing land use impacts on farmland birds. *Environ. Monitor. Assess.* 187 (6) 336, 1-21.
14. **Gutzler, C., Helming, K., Balla, D., Dannowski, R., Deumlich, D., Glemnitz, M., Knierim, A., Mirschel, W., Nendel, C., Paul, C., Sieber, S., Stachow, U., Starick, A., Wieland, R., Wurbs, A., Zander, P.** (2015) Agricultural land use changes - a scenario-based sustainability impact assessment for Brandenburg, Germany. *Ecological Indicators* 48, 505-517.
15. Schuler, J., Sattler, C., Helmecke, A., **Zander, P.** et al. (2013): The economic efficiency of conservation measures for amphibians in organic farming: results from bio-economic modelling. *J. Env. Manage.* 114, 404-413