

CV Wenche E. Dramstad

Position: Senior research scientist / Head of Landscape monitoring department
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Career:

2011- Professor in landscape ecology at the Dept. of landscape architecture, Faculty of Landscape and Society, Norwegian University of Life Sciences (20% position)
Responsible for the landscape ecology course (LAA370, MSc level)

2011- Member of FAGUS advisory team

2010- Research professor at the Norwegian Institute of Bioeconomy Research (NIBIO)¹
Head of landscape monitoring department, Survey and Statistics Division

Main responsibilities include management of and reporting from research projects and the Norwegian monitoring programme for agricultural landscapes. The research team of the Survey and Statistics Division in NIBIO includes natural and human geographers, ecologists, botanists, soil scientists as well as experienced users of advanced GIS-tools, geomatics and database technology and experience on interpretation of aerial photographs and satellite imagery. The team has a wide national and international network.

1997-09 Research scientist at the Norwegian Forest and Landscape Institute¹

Education:

2002-10 University of Life Sciences, Norway (UMB)²
Special student following independent study plan at the Dept. of Landscape Architecture and Land Use Planning. Courses included history of landscape architecture, Norwegian law, plant physiology, computer aided design, drawing and design.

1992-96 Agricultural University of Norway (NLH)
Ph.D.-studies in landscape ecology, Dept. of Biology and Nature Conservation. Courses included: Statistics, philosophy of science, pollination ecology and geographic information systems. Thesis: "The landscape ecology of bumblebees: Importance of spatial distribution of resources."

1994 Graduate School of Design, Harvard University, Cambridge, USA
Special student for one semester, doing courses in landscape ecology, site ecology, fundamentals of computer aided design, advanced topics of computer aided design, analysis and management of visual landscapes, in addition to one independent study resulting in the book "Landscape ecology principles in landscape architecture and land-use planning" published by Island Press / Harvard University.

¹ The Norwegian Institute of Bioeconomy Research (NIBIO) was established July 1st 2015 through merging the Norwegian Institute for Agricultural and Environmental Research, the Norwegian Agricultural Economics Research Institute and the Norwegian Forestry and Landscape Institute.

² The Agricultural University of Norway (NLH) changed name to University of Life Sciences (abbreviated UMB) January 1st 2005. From 2014, the University changed its abbreviation to NMBU. I have used the new name when referring to events taking place from 2005/2014 onwards; elsewhere I have used Agricultural University of Norway.

- 1992** **Nordic Ph.D. course:** Pollination ecology
- 1986-90** **Agricultural University of Norway, M.Sc. in Nature conservation and management**
Thesis entitled: "Water chemistry and benthic fauna as indicators of water pollution in the river Glomma in Østfold."
- 1997 -** **Additional coursework include**
Arc-GIS, presentation techniques, media skills, project management and vegetation ecology. Participated in AFF's mentoring program for new leaders (2004-05).

Current responsibilities:

- Head of the landscape monitoring department; a cross-disciplinary team of 10 researchers. I thus also participate in annual and strategic planning in the division.
- Some current and recent externally funded research projects I am/ have been involved in include;
 - "CHEOPS": Integrating climate, environment, and public health in the Norwegian food system to assess efficient, safe, and acceptable policy options"
 - "Fireflies": Farming with nature. <https://www.fireflies-project.eu/en>
 - "VALUECHANGE: Valuation of Cultural and Environmental Goods for Integrated Assessment and Decision-making: From Promise to Practice"
 - "UrbanLand: Planning and sustainable urban land use"
 - "Space, land and society: challenges and opportunities for production and innovation in agriculture based value chains" (AGRISPACE)
 - "Structural changes in agriculture, rural communities and cultural landscapes" (STRUCTURES)
 - "Managing the transition to a "smart" bioeconomy" (BIOSMART)
- Member of the IALE-Europe Executive Committee 2017-21. Previously responsible for a workgroup focused on application of landscape ecology
- Has served on the Editorial board of Landscape and Urban Planning and Frontiers in Environmental Sciences, Land Use Dynamics section.

Research interests:

Particularly interested in landscape ecology as a bridge between ecologists and landscape architects / land use planners, the development and use of landscape indicators, communication of landscape change, adaptive management, sustainable development and how landscape influence people's experience of their surroundings.

Refereed publications (since 2017):

- Sickel, H., Pedersen, C., Fjellstad, W., Dramstad, W. & Kapfer, J. 2026. Jordbrukslandskapets «mellomrom» - hvordan står det til med blomsterressursene? Blyttia.
- Krokann Berg, S., Tsegaye D., Dramstad W.E. 2025. Kulturarv i jordbrukslandskapet – kulturarvskategorier og forvaltningsnivå. Kart og Plan s. 258-272.
- Karan, S. K., Pedersen, C., Sickel, H., & Dramstad, W. E. 2025. Semi-natural habitats, red-listed plants and abandonment in Norway: patterns and a screening approach for prioritization. Ecological Indicators, 180, 114324.
- Brynildsrud, K., Horvath, P., Angeloff, M., Dramstad, W.E., Naas, A.E., Potthoff, K. & Bryn, A. 2025. Forty years of urban development in Oslo (Norway): impacts on ecosystems and biodiversity. Journal of Urban Ecology; 11.
- Dramstad, W. E., Tsegaye, D., Krøgli, S. O., Pedersen, C., & Aune-Lundberg, L. (2025). Beyond provisioning: Unveiling ecosystem services of agricultural landscapes. Norsk Geografisk Tidsskrift-Norwegian Journal of Geography, 79, 101-107.
- Tsegaye, D., Pedersen, C., Krøgli, S.O., Bryn, A., Potthoff, K. & Dramstad, W.E. 2024. Grazing and recreation: spatial co-occurrences and conflicting aims in Norwegian mountain landscapes. Catena, 244.

- Krøgli, S.O., Aune-Lundberg, L. & Dramstad, W. 2023. Presence of agriculture in photos of Norwegian landscapes uploaded to Flickr. *Norsk Geografisk Tidsskrift - Norwegian Journal of Geography*, 77, 243–254
- Pedersen, C., Dramstad, W., & Puschmann, O. 2023. Landskapsbiografi – et nyttig verktøy i forvaltningen av Utvalgte kulturlandskap. *Tidsskriftet UTMARK*(1), 13-33. Retrieved from <http://www.utmark.org/>
- Eikaas, I.L., Roussel, H., Thorén, A.K.H., & Dramstad, W.E. 2023. Applying Landscape Ecology in Local Planning, Some Experiences. *International Journal of Environmental Research and Public Health*, 20, 3410.
- Mohr, F., Diogo, V., Helfenstein, J., Debonne, N., Dimopoulos, T., Dramstad, W., ... & Bürgi, M. 2023. Why has farming in Europe changed? A farmers' perspective on the development since the 1960s. *Regional environmental change*, 23, 156.
- Helfenstein, J., Bürgi, M., Debonne, N., Dimopoulos, T., Diogo, V., Dramstad, W., ... & Herzog, F. 2022. Farmer surveys in Europe suggest that specialized, intensive farms were more likely to perceive negative impacts from COVID-19. *Agronomy for sustainable development*, 42, 84.
- Potthoff, K. & Dramstad, W.E. 2023. "Management of rented farmland in Norway: Factors impacting on tenants' decisions to make investments." *Land Use Policy* 135 (2023): 106941.
- Potthoff, K. & Dramstad, W.E. 2023. 'Resilient food production – resilient landscapes: The role of heterogeneity and scale.' Submitted for inclusion as a chapter in "Creating Resilient Landscapes in an Era of Climate Change" edited by Amin Rastandeh & Meghann Jarchow, Routledge.
- Kapfer, J., Dramstad W., Pedersen, C., Sickel H. & Heegaard, E. 2022. 'Diversity patterns in high-latitude grasslands.' *Applied Vegetation Science* 25: e12647.
- Aune-Lundberg, L. & Dramstad, W.E. 2022. 'Om tettsteders vekst og effekt på arealbruk. Er von Thünen fortsatt aktuell?' [Expanding urban areas and their effects on land use – is von Thünen still relevant?] *Kart og Plan*, 115: 13-28.
- Krøgli, S.O., Debella-Gilo, M. & Dramstad, W.E. 2020. 'Bioøkonomiens geografi og geografiske målkonflikter. *Kart og Plan*, 113: 104-120.
- Nørstebø, V.S., Krøgli, S.O., Debella-Gilo, M., Perez-Valdes, G.A., Uggen, K.T. & Dramstad, W.E. 2020. 'Identifying suitable bioeconomic cluster sites - Integrating GIS-MCDA and Operational Research methods.' *Environment, Development and Sustainability*; 1-15.
- Stokstad, G., Krøgli, S.O. & Dramstad, W.E. 2020. 'The looks of agricultural landscapes – how does non-crop landscape elements contribute to the visual preferences in a large scale agricultural landscape?' *Norwegian Journal of Geography* 74: 111-122.
- Dramstad, W.E., Debella-Gilo, M. & Krøgli, S.O. 2020. Bærekraftig bruk av biologiske ressurser: Geografisk kunnskap som grunnlag for gode valg. 'I: "Etter oljen: Vår bioøkonomiske fremtid." Cappelen Damm Akademisk. s.150-168.
- Krøgli, S.O., Debella-Gilo, M., Dramstad, W., Nørstebø, V.S., Perez-Valdes, G.A. 2020. Her, der eller overalt? Bioøkonomiens geografi. 'I: "Etter oljen: Vår bioøkonomiske fremtid." Cappelen Damm Akademisk. s.127-149.
- Dramstad, W.E. & Sundli Tveit, M. 2019. 'Teaching landscape ecology.' I; Jørgensen, K., Karadeniz, N., Mertens, E. & Stiles, R. (red), "Teaching landscape". Routledge.
- Stokka, T., Dramstad, W.E. & Potthoff, K. 2018. 'The use of rented farmland in an area of intensive agricultural production in Norway. ' *International Journal of Agricultural Sustainability*: 1-12.
- Jimenez-Martinez, G., Potthoff, K. & Dramstad, W.E. 2017. 'Integrating landscape ecology into landscape planning – How to overcome the communication gap?' *Kart og Plan*, 77: 1-10.
- Díaz-Varela, E., Fernandez-Campo, M., Rodríguez-Morales, B., Dramstad, W.E. & Fjellstad, W.J. 2017. 'Ecosystem services mapping for detection of bundles, synergies and trade-offs: examples in two Norwegian municipalities.' *Ecosystem Services*, 28: 283-297.
- Dramstad, W.E. & Fjellstad, W.J. 2016. 'Landscape ecology as a framework for sustainable landscape planning.' *Chinese Landscape Architecture*, 32: 22-27.
- Dramstad, W.E. & Sundli Tveit, M. 2016. 'Landscape as pattern or process' In Jørgensen, K., Clemetsen, M., Halvorsen Thorén, A.K. & Richard, T.K. (Eds.) "Mainstreaming landscape through the European Landscape Convention", Routledge, pp. 46-59.

- Lüscher, G., et al. 2016. 'Farmland biodiversity and agricultural management on 237 farms in 13 European and two African regions.' *Ecology* 97, 1625-1625. (Data paper)
- Gundersen, V., Clarke, N., Dramstad, W.E. & Fjellstad, W.J. 2015. 'Effects of bioenergy extraction on visual preferences in boreal forests: a review of surveys from Finland, Sweden and Norway.' *Scandinavian Journal of Forest Research*, 31, 323-334.
- Krøgli, S.O., Dramstad, W.E. & Skar, B. 2015. 'World heritage and landscape change - heritage buildings and their changed visibility in the coastal landscape of Vega, Norway.' *Norwegian Journal of Geography*, 69: 121-134.
- Krøgli, S.O., Fjellstad, W.J., Heggem, E.S.F., Dramstad, W.E., Eiter S. & Puschmann, O. 2015. 'Landskap i ruter - et fleksibelt system for landskapsanalyser.' *Kart og Plan* 108: 329-342.
- Sang, N., Dramstad, W.E. & Bryn, A. 2014. 'Regionality in Norwegian farmland abandonment: Inferences from production data.' *Applied Geography*, 55: 238-247.
- Koppen, G., Sundli-Tveit, M., Sang, Å. & Dramstad, W.E. 2014. 'The challenge of enhancing accessibility to recreational landscapes.' *Norwegian Journal of Geography*, 68: 145-154.
- Dramstad, W.E. & Fjellstad, W.J. 2013. 'Twenty-five years into "our common future": are we heading in the right direction?' *Landscape Ecology*, 28: 1039-1045.
- Kadlecova, V., Dramstad, W.E., Semancikova, E. & Edwards, K.R. 2012. 'Landscape changes and their influence on the heterogeneity of landscape of the South Bohemian Region, the Czech Republic.' *International Journal of Sustainable Development & World Ecology* 19, 546-556.

Selected other publications (since 2017):

- Dramstad, W., Simensen, T., Krøgli, S.-O., Marius Berge Eide, M.B., Skjold Oksnes, L. & Nystad-Handberg, Ø. 2026. Kunnskap for bedre utnyttelse av grå arealer. Menon publikasjon 35.
- Dramstad, W., Pedersen, C. & Stokstad, G. 2026. Dette må vi unngå å gjøre igjen i norsk landbruk. Letter to the editor. 13/07/2026
- Handberg, Ø., Hole, I.N., Simensen, T., Dramstad, W., Tønnesen, A., Bjørgen, A., Svaboe G.B.A., Sundnes, F., Johnsen, K.I., Larsen, I.W., Oksnes, L.S., Bruvoll, A. & Lindhjem, H. 2026. Virkemidler for å redusere nedbygging av særlig viktige naturarealer. Menon-publikasjon Nr. 22.
- Dramstad, W. 2025. La selja leve. Faglig snakka. Nationen. 07/05/2025.
- Dramstad, W. & Pedersen, C. 2025. Alle er egentlig interessert i fugler – det er bare ikke alle som vet det. Faglig snakka. Nationen. 26/11/2025.
- Bjørkvoll, E., Kolstad, A., Krøgli, S.O., Van Moorter, B., Dramstad, W. & Panzacchi, M. 2025. Strukturell konnektivitet i økosystemer. Forslag til metode og bruk av indikator i naturregnskaper. NINA rapport 2686. Norsk institutt for naturforskning.
- Eiter, S., Krøgli, S.-O., Stokstad, G. & Dramstad, W. Matproduksjonspotensiale i Oslo: Betydning av arealressurser og kunnskap. NIBIO-rapport 2024/10/30.
- Rusch, G.M., Engen, S., Friedrich, L., Hindar, K., Krøgli, S.O., Immerzeel, B., Solberg, E., Köhler, B., Dramstad, W., Venter, Z., Spielhofer, R., Stange, E. & Barton, D.N. 2024. Økosystemtjenester i naturregnskap etter FN-standard i Norge: Vurdering av tilgjengelige modeller og datagrunnlag. NINA Rapport 2343. Norsk institutt for naturforskning
- Tsegaye, D., Dramstad, W., & Krøgli, S.O. 2023. Landbruket – mer enn matproduksjon. NIBIO POP, 9(33), 4.
- Stenrød, M., Klinge, I., Hatteland, B. A., Bayr, U., Dramstad, W., & Odenmarck, S. R. 2023. Plantevernmidler i etanol fra insektfeller (Malaisefeller) i semi-naturlig mark; Relevans for å vurdere påvirkning av miljøgifter på insektfunn. NIBIO Rapport.
- Lindhjem, H. & Dramstad, W. (reds) 2023. Kulturarv, naturmangfold og andre naturgoder i jordbrukslandskapet. MENON-publikasjon 87/2023.
- Pedersen, C. & Dramstad, W. 2022. Landskapets mellomrom – fra gårdbrukerens perspektiv. NIBIO POP. 2022, 8 (25).
- Pedersen, C. & Dramstad, W. 2022. Veikantene – levested for mange plantearter og pollinerende insekter. NIBIO POP. 2022, 8 (19).
- Mathiesen, H. F., Bjørkelo, K., Aune-Lundberg, L., Borch, H., Borchsenius, B., Dramstad, W., . . . Sjøgaard, G. 2022. Økt kunnskap om karbonlagring og klimatilpasning i byggesonen: Nye temakart for arealplanlegging i Oslo kommune. NIBIO Report 8(70).

- Eiter, S., Bele, B., Fjellstad, W. J., Flø, B. E., Sickel, H., Vennesland, B., & Dramstad, W. 2022. Mat og opplevingar i fjellet: Berekraftig bruk av lokale ressursar.
- Mathiesen, H. F., Bjørkelo, K., Aune-Lundberg, L., Borch, H., Borchsenius, B., Dramstad, W., . . . Søgaaard, G. (2022). Kartlegging og formidling av blå og grønne verdier. NIBIO Report 8/70.
- Bayr, U., Strand, G.H. & Dramstad, W. 2020. Indikatorer for landbruk over hele landet - Utvikling av en metode for resultatkontroll av landbrukspolitiske mål. NIBIO Rapport 6(65).
- Bell, G., Dramstad, W., Opsahl, L.A. & Fjellstad, W.J. 2020. Building an integrated model that spans all aspects of ecosystem services. NIBIO Rapport; 6(54).
- Wallin, H., Fjellstad, W., Dramstad, W., Gjertsen, A.K., Taff, G. & Bayr, U. 2019. Bruk av satellittdata i overvåking av KULA-områder. NIBIO Rapport; 5(94).
- Puschmann, O., Dramstad, W., Eiter, S. & Kildahl, K. 2019. Tap av jordbruksareal i Norge. En fotodokumentasjon med refleksjoner om årsaker, virkninger og mottiltak. NIBIO Bok, Volume 5 (7).
- Framstad, E., Bryn, A., Dramstad, W.E. & Sverdrup-Thygeson, A. 2018. Grønn infrastruktur. Landskapsøkologiske sammenhenger for å ta vare på naturmangfoldet. NINA-report 1410.
- Dramstad, W.E. & Pedersen, C. 2018. Dagens kanarifugler jobber ikke i gruvene. Letter to the editor. Klassekampen; 2018-04-11.
- Jimenez-Martinez, G., Dramstad, W.E., Eiter, S. 2017. Et miljømessig bærekraftig landbruk: mål, utfordringer og tiltak. NIBIO-POP, Volume 3: 18.
- Dramstad, W.E. 2017. Arealplanlegging på jordet. Letter to the editor. Klassekampen; 06/06/2017.
- Stokstad, G., Fjellstad, W.J., Eiter, S., Dramstad, W. 2017. 3Q: Monitoring agricultural landscapes in Norway. NIBIO-POP, Volume 3: 19.

Storymaps

- Mellomrommet: <https://arcg.is/1K9nOu>
- Veikanter: <https://arcg.is/PDG1m>
- Pollinatorene og blomsterbuketten: <https://arcg.is/0SaHyr>
- Fuglene i jordbrukslandskapet mellomrom: <https://arcg.is/0Wmfl40>

