Vigdis Vandvik Curriculum Vitae

* PERSONAL INFORMATION

First name, Surname:	Vigdis Vandvik		
Date of birth:	June 15th 1968	Sex:	Female
Nationality:	Norwegian		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	**OrcID**: orcid.org/0000-0003-4651-4798 **ResearcherID**: www.researcherid.com/rid/C-1924-2008		
URL for personal website:	https://www.uib.no/en/persons/Vigdis.Vandvik		

* EDUCATION

Year	Faculty/department - University/institution - Country
2002	DR. SCIENT. Department of Botany, University of Bergen (UIB), Norway.
1995	CAND. SCIENT. Quantitative Ecology, Department of Botany, UIB, Norway.

* POSITIONS - current and previous

Year	Job title – Employer - Country
2020-	CENTRE DIRECTOR, CeSAM Centre for Sustainable Area Management, UIB
2008-	FULL PROFESSOR, Department of Biology, UIB
2014-2020	CENTRE DIRECTOR, bioCEED Centre of Excellence in Biology Education, UIB
2011-2015	VISITING PROFESSOR - Chinese Academy of Sciences, Chengdu, China
2007-2010	DEPUTY CHAIR, Department of Biology, UIB
2002-2007	POST-DOCTORAL FELLOW, Department of Biology, UIB / University of Michigan, USA

Career breaks

Year	Reason
1996-2001	MATERNITY LEAVES for a total of 35 months

Project management experience *(Selected from 45 projects; total funding > 200 mill NOK)*

Year	Project owner - Project - Role - Funder
2014-2024	**bioCEED:** Centre of Excellence in Biology Education - Principal Investigator (PI) - DIKU
2022-2026	**DURIN:** Dwarf-shrub climate responses and feedbacks in the boreal biome - PI - RCN
2021-2025	**EcoMAP:** Mapping for knowledge-based Area management and Planning - PI - RCN
2021-2024	**FUNDER:** Climate impacts on the functioning of the plant-soil food web - PI - RCN
2020-2025	**CeSAM:** Centre for sustainable area management - Director - UiB
2021-2024	**RangeX**: Impacts of alien species under climate change. - WP leader - BiodivERsA (EU).
2019-2022	**EMERALD**: Ecosystem-climate linkages - WP leader – NORWEGIAN RESEARCH COUNCIL (RCN).
2019-2021	**ExperTS:** Experiments, Traits, Synthesis in research and education - PI - RCN
2019-2021	**Three-D:** THREE global change Drivers of alpine biodiversity and ecosystems - CoPI - RCN
2018-2021	**INCLINE**: Indirect climate change impacts on alpine plant communities - PI - RCN
2018-2021	Novel plant-soil interactions under changing climate - Partner - SWISS NATL. SCI. FOUNDATION
2018-2021	**RECITE:** Research and Education in Climate Change Impacts on Ecosystems - PI - RCN
2017-2020	**HiddenCosts:** afforestation as a climate mitigation strategy - WP leader - RCN
2016-2020	**LandPress**: Land use to ensure ecosystems services in heathlands - PI - RCN

Supervision of students and postdocs (total / completed)

Master's	Ph.D.	Post-doc	University/institution - Country
32/29	21 / 16	12 / 8	University of Bergen, Norwegian University of Life Sciences - Norway; University of Arizona, University of Michigan - USA; Makerere University - Uganda

Other relevant professional experiences *(selected)*

Year	Description - Role
2019-	Global Biodiversity Information Facility (GBIF) - OPEN SCIENCE AMBASSADOR
2018	OpenTraits.org - MEMBER OF MANAGING COMMITTEE
2018-	Norwegian Scientific Committee for Food and Environment (www.vkm.no) - DEPUTY CHAIR
2017-	Developing, implementing, and testing the Norwegian system for Ecosystem State and Condition (IBECA) for The Norwegian Nature Directorate - EXPERT PANEL, PROJECT MEMBER
2014-	Norwegian Biodiversity Information Centre (www.artsdatabanken.no) - BOARD DEPUTY CHAIR
2013-	RCN programmes KLIMAPOLAR, KLIMAFORSK, NYMILJØ - BOARD MEMBER
2007-	19 PhDs, 13 Universities in Denmark, Estonia, Finland, Norway, Sweden, UK– PHD EXAMINER
2007-	Oikos EDITOR-IN-CHIEF, Botany, J. Vegetation Science, Ecography - ASSOCIATE EDITOR
2006-	Five national research councils, two EU, one ERC panels - GRANT EVALUATOR / PANEL CHAIR
1997 -	Research networks ABERG, COMPADRE, DroughtNet, EHN, ITEX, LOTVS, MIREN, NEOR, PAGES
2019-2023	Intergovernmental Panel for Biodiversity and Ecosystem Services thematic assessment of invasive alien species and their control (IPBES, http://ipbes.net/) COORDINATING LEAD AUTHOR
2021-2023 2016-2018	Norwegian Biodiversity Information Centre - Alien Species Assessment – conducting assessments and developing the Norwegian GEIIA assessment methodology - EXPERT PANELS
2017-2018	New funding arena for quality in higher education (https://www.diku.no/) - EXPERT PANEL
2014-2018	COST Action ES1308 ClimMani - MANAGING COMMITTEE MEMBER
2016-2017	Forskerforbundet – Expert committee on quality in HigherED - COMMITTEE MEMBER
2016-2017	The Ministry for Climate and Environment – Ecosystem State and Condition - EXPERT PANEL
2015-2017	IPBES ECA Regional assessment of biodiversity and ecosystem services - LEAD AUTHOR
2015-2017	Chair of the VKM Scientific Panel on introduced species, threatened species (CITES)

Output statistics: (January 12th 2022): 1309 peer-reviewed scientific publications, 4797 citations (3029 since 2017), H-index 39, i10 index 86. (co)first or sole authorships 16%, senior authorships 42%. Additionally 55 scientific reports and book chapters, 10 published datasets, 127 scientific conference presentations, 57 presentations about educational development, and 152 outreach activities.

10-year track record – see page 3

Vigdis Vandvik 10-year track record

Professor of plant ecology at the University of Bergen in Norway where I am the director of the CeSAM Centre for Sustainable Area-Management. I have led a large research project portfolio for over a decade, focusing my research on understanding how major global change drivers - especially climate and land-use change - affect plants, biodiversity, and ecosystem functions and services. My group use macroecological experiments - replicating field experiments across broad geographical and climatic extents within Norway and across the globe - to disentangle and understand patterns and processes underlying generalities as well as context-dependencies in global change effects and responses. Generally, our research is having both methodological and conceptual impact (evidenced by papers i, ii, vi, vi, viii below). Specific insights are also contributed to alpine ecology (see i, ii, iii, v, vi, viii, x) and heathland ecology (vii, ix). Impact is evidenced by invitations to give keynotes and talks, participate in synthesis and assessment, and write commentaries (see below).

Field experiments offer opportunities for student-active research, and my research is test-bed for developing effective ways of teaching and learning as integral components of 'real' research projects (papers iii, iv).

I am passionate about research integrity, FAIR open research practice, research quality, and impact in society. I lead research and education projects that further reproducible research practices (papers iii, iv, ix), share data (paper iii), train students in reproducible practices (papers iii, iv), develop methods for ecosystem and biodiversity assessment, and promote evidence-based management and policy (paper ix). In Norway, I am central in developing and applying methods and frameworks for assessing Ecosystem State and Condition, Alien Species, evidence-based policy more generally, including a substantial media presence (See CV). Internationally, I have participated in assessments and science-policy debates (see CV, papers ix, xi, xii). I am now Coordinating Lead Author on the Intergovernmental Panel on Biodiversity and Ecosystem Services Invasive Alien Species and their control report (IPBES-IAS).

I have strong formal and informal international collaborative networks, I participate in synthesis and research assessments, and I am elected member of the Norwegian Academy of Science and Letters.

1. Representative scientific publications as (co-) first or senior author *(selected from 130).*

i. **Vandvik V**, Klanderud K, Skarpaas O, Telford RJ, Halbritter A, & Goldberg DE. 2020. Biotic rescaling reveals importance of species interactions for variation in biodiversity responses to climate change. *PNAS* 17 (37): 22858-22865. *(I designed and led the project, collected data, conceptualized research idea, and wrote paper). IMPACT: LED TO 6 INVITED TALKS; A RESEARCH HIGHLIGHT/COMMENTARY PAPER.*

ii. Guittar J, Goldberg DE, Klanderud K, Berge A, Boixaderes MR., Meineri E, Töpper JP, & **Vandvik V.** 2020. Quantifying the roles of seed dispersal, filtering, and climate on regional patterns of grassland biodiversity. *Ecology* 101: e03061. *(. I designed and led the project, collected data, co-conceptualized research idea, and co-wrote paper). IMPACT: PHD SUPERVISION, INTERNATIONAL COLLABORATION.*

iii. **Vandvik V**, Halbritter AH, 30 other authors incl. 20 students & Enquist BJ. 2020. Plant traits and vegetation data from climate warming experiments along an 1100 m elevation gradient in Gongga Mountains, China. *Scientific Data: 7(189): 1-15*. *(I designed and led the course and project, led data collection, conceptualized research idea, and wrote paper). IMPACT: STUDENT ACTIVE RESEARCH, OPEN SCIENCE.*

iv. Halbritter AH, 109 other autors, & **Vandvik V.** 2020. The handbook for standardised field and laboratory measurements in terrestrial climate-change experiments and observational studies (ClimEx). *Methods in Ecology and Evolution* 11:22–37. *(I co-conceptualized the research idea, co-coordinated the collaboration of 116 authors over three years to write the handbook, and co-wrote paper). IMPACT: LARGE INTERNATIONAL NETWORK, REPRODUCIBLE SCIENCE, STUDENT ACTIVE RESEARCH.*

v. Althuizen IHJ, Lee H, Sarneel J, & **Vandvik V.** 2018. Long-term climate regime modulates the impact of short-term climate variability on decomposition in alpine grassland soils. *Ecosystems* 21, 1580-1592. *(I designed and led the project, co-conceptualized idea, and co-wrote paper). IMPACT: PHD SUPERVISION*

vi. Graae BJ, **Vandvik V,** 16 other authors & Lenoir J. 2018. Stay or go – how topographic complexity influences alpine plant population and community responses to climate change. *Perspectives in Plant Ecology, Evolution and Systematics* 30: 41-50. *(I co-conceptualized the research idea, co-coordinated the Nordic researcher network, and co-wrote paper as a shared first author). IMPACT: NEW FRAMEWORK FOR UNDERSTANDING VARIATION IN CLIMATE CHANGE IMPACTS, LED TO >5 INVITED TALKS, HIGHLY CITED (108 CITATIONS.)*

vii. Måren IE, Kapfer J, Aarrestad PA, Grytnes J-A, & **Vandvik V.** 2018. Changing contributions of stochastic and deterministic processes in community assembly over a successional gradient. *Ecology* 99:148–157. *(I collected data, conceptualized research idea, and co-wrote paper). IMPACT: WELL CITED (55 CITATIONS)*

viii. **Vandvik V**, Halbritter AH, & Telford RJ. 2018. Greening up the mountain. *PNAS* 115: 833-835. *(I conceptualized the research idea and wrote paper). IMPACT: INVITED COMMENTARY.*

ix. Davies GM, 10 other authors & **Vandvik V.** 2016. The role of fire in U.K peatland and moorland management; the need for informed, unbiased debate. *Philosophical Transactions of the Royal Society – Series B* 371 (1696), 20150342. *(I co-conceptualized and co-wrote paper). IMPACT: PUBLIC, SCIENCE DEBATES.*

x. **Vandvik V,** Töpper JP, Cook Z, Daws MI, Heegaard E, Måren IE, and Velle LG. 2014. Management-driven evolution in a domesticated ecosystem. *Biology Letters* 10: 20131082. *(I led the project, collected data, conceptualized the research idea and wrote paper). IMPACT: NEW RESEARCH DIRECTIONS, 3 KEYNOTES.*

2. Research monographs *(selected from 54)*

xi. IPBES (2018): Summary for policymakers of the regional assessment report on biodiversity and ecosystem services for Europe and Central Asia of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. M. Fischer, and 24 other authors, incl. **Vandvik V**. IPBES secretariat, Bonn, Germany. 48 pages. *IMPACT: MAJOR CONTRIBUTION TO EUROPEAN SCIENCE-POLICY INTERFACE*

xii. Willis KJ, Carretero J, Enquist BJ, Kuhn N, & **Vandvik V.** 2017. Climate change – which plants will be the winners? In: Willis KJ (red): *State of the World's Plants 2017.* 98 pp. Report. Royal Botanical Gardens, Kew, UK. ISBN: 987-1-84246-647-6. *IMPACT: CONTRIBUTION TO SCIENCE-POLICY INTERFACE. INVITED TALKS*

3. Invited presentations to international conferences and/or advanced schools

SCIENTIFIC PRESENTATIONS at international conferences >100 (23 invited, 12 keynotes)
LECTURES and seminars on education and educational development>50 (21 invited, 4 keynotes)
LED five International Plant Functional Traits Courses (PFTC) in China, Peru, and Norway
TAUGHT International Research School in Applied Ecology (https://irsae.no/), 2018, Evenstad, Norway.
TAUGHT IMPACT2C-ResClim-Nansen Zhu Regional Climate Impacts Summer School, 2014, Rosendal, Norway.
LED BERGEN SUMMER RESEARCH SCHOOL, 2013, University of Bergen, Norway
LED Research School on climate change in alpine ecosystems. Nordic Council of Ministers, 2012, Norway

4. Research expeditions that the applicant Principal Investigator has led

2018, 2020 TraitTrain Functional traits campaign Waychequa, Peru. EXPEDITION LEADER
2018 TraitTrain Functional traits campaign, Longyearbyen, Svalbard. EXPEDITION LEADER
2015, 2016 TraitTrain Functional traits campaign, Mt. Gongga, China. EXPEDITION LEADER

5. Prizes, awards, academy memberships

2021 – SCIENCE COMMUNICATION PRIZE – Facullty of Mathematics and Natural Sciences, UiB
2021 – ELECTED MEMBER of Det Kongelige Norske Videnskabers Selskabs Akademi (www.dknvs.no)
2019 – ELECTED MEMBER of Norges Tekniske Videnskapsakademi (WWW.NTVA.NO/)
2016 – ELECTED MEMBER of the Norwegian Academy of Science and Letters (www.dnva.no)

6. Major contributions to the early careers of excellent researchers

Of 16 graduated PhD students, 11 have permanent academic jobs, 1 is in tenure track, 3 are postdocs. Of 8 completed postdocs, 7 have permanent academic jobs. I have supported students at all levels to present at scientific conferences, and to publish their work, and I have developed and taught international research schools and graduate courses with > 300 participants in total.

7. Public outreach in the science-policy interface, and popular science

>150 activities including: Norwegian and European TV features, news and debates; Radio features, news and debates; op-eds and feature and contributed articles in newspapers and magazines; presentations and talks for various public and private organizations and societies, popular science communication to the general public; twitter (@VVandvik >3800 followers).