

Curriculum Vitae

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Education

- **Dr. scient** student 01.04.00-16.06.04 Department of Biology, University of Bergen.
- **Cand. scient.** in Biology (Botany), University of Bergen. Exam 13.02.98.
- *August - December 1996:* ERASMUS student at the Aristotelian University of Thessaloniki, Greece.
- University Courses on Svalbard (UNIS): Arctic Biology, 1994-95.

PROJECTS

2019-2022 FieldPass: Development, testing and evaluation of tools and assessment forms to enhance constructive alignment in field teaching. Role: partner

2019-2023 Effects and responses to changing environments in the sub-Antarctic. Role: PI

2017-2021 Time will tell: understanding the impacts of past climate change, human land use history, and natural succession on ecosystem composition, biodiversity, and soil carbon storage. Role: PI

2016-2019 *Interglacials and glacials - natural experiments in biodiversity dynamics* (IGNEX). Role: researcher

2016-2019 *Climate History along the Arctic Seaboard of Eurasia* (CHASE). Role: partner

2015-2017 *Greenland Margins: Glacial Ice, Ocean and Atmospheric Dynamics* (MARGINS). Role: partner

2013-2016 *No-analogue climates and ecological responses in the past and future* (NoAClim). Role: researcher

2013-2016 *From spruce to beech forests - fundamental ecosystem transformation driven by climate change*. Role: partner

2012-2015 *Developing a method to measure UV-B flux through time using aromatic compounds contained in fossil pollen and leaf cuticle*. Role: researcher

2011-2014 BioDiverse: *Terrestrial biodiversity through time – novel methods and their applications*. Role: PI

2011-2012 *Shifting Climate States and Resulting Biotic Responses of the Polar Regions*. Role: PI

2007-2010 ARCTREC: *ARCTic REcords of past Climate change – dynamics, feedbacks and processes*. Role: researcher

2009-2010 *Effects of recent climate change: Reconstruction of environmental and vegetation changes along a coast-to-inland transect in southern Norway*. Role: co-PI

2008 *Megafofossils, tree lines, and past climate in the mountains of south-central Norway*. Role: PI

2008 *Where's the canary – the arctic or the tropics?* Role: PI

2005-2009 *Land-use and ecosystem function in Norwegian forest landscapes*. Role: partner

2003-2006 *Past Climates of the Norwegian Region – 2* (NORPAST-2). 2003-2006. Role: post doc

2004 - *Direct Observation of Macrofossils Across Tree line – DOORMAT*. Role: PI

2003-2006 *European Thematic Network on Cultural Landscapes and their Ecosystems*. EU-project. Role: Project manager

2000-2004 *Norwegian Palaeoenvironments and Climates* (NORPEC) *as reconstructed from lake sediments*. Role: PhD student

FORMAL RESEARCH NETWORKS

2016-2018	Member of PAGES Working Group EcoRe3 Resistance, Recovery and Resilience in Long-term Ecological Systems
2011-2013	Biotic response to climate change in cold climates (BioCold). NordForsk network
2009-2011.1	LANDCLIM 10 000. NordForsk network
2009	GLORIA (Global Observation Research Initiative in Alpine environments) Norway
2007-2009	Nordic Network on Palaeoclimatology (NEPAL). NordForsk network
2001-2005	Pollen Landscape Calibrations (Pollandcal). NordForsk network

Research interests

Pollen analysis, plant macrofossil analysis, palaeoecology, vegetation history, climate history, pollen – landscape relationships, environmental archaeology, and arctic ecology, forests and landscapes, biodiversity.

Research experience prior to dr. scient work

Since August 1996 until starting my dr. scient work in April 2000 I was involved in several projects as a research assistant working with pollen analysis from both natural deposits (peat and lakes) and archaeological contexts. The types of sites vary and cover a range of types from the peat samples from the Peleponnese, Greece, to fossil peat from Edgeøya, Svalbard and from Val Febbraro, Lavazze, Italy as well as lake sediments from lakes in western Norway. In relation to archaeological projects I have worked with pollen and peat stratigraphy in central Norway, a submarine peat profile from Fiskarstrand, Ålesund, and with pollen analysis in connection with the Ormen Lange project in Møre and Romsdal and with sediments from the ancient Temple of Athena Alea, in Tegea, Greece.

Laboratory work

In 1999 and 2000 I worked as a research assistant on different projects at Department of Botany, University of Bergen. Responsibilities; Loss-on-ignition (550°C and 950°C), analysis of heavy metals (Cu, Zn, Pb, Hg), nitrogen, pH, and preparation of diatom samples.

TEACHING AND SUPERVISION

2019 -	Lecturing SDG215 UN SUSTAINABLE DEVELOPMENT GOAL 15: LIFE ON LAND
2018	Lecturing MNF 110 MILJØ, KLIMA OG MENNESKETS HISTORIE
2017 -	Course responsible and teacher BIO101 ORGANISMAL BIOLOGY I (10 ECTS, ~120 students)
2015 -	Course responsible BIO250 PALAEOECOLOGY (10 ECTS, ~20 students)
2014–2017	Course responsible UniSkolen – Project management course, Uni Research AS
2015-2016	Course responsible and teacher BIO347 GLOBAL CHANGE BIOLOGY (5 ECTS, ~20 students)
2011 -	Lecturing GEO212 TERRESTRIAL CLIMATE- AND ENVIRONMENTAL CHANGES
2008–2011	Lecturing BIO 301 CURRENT TOPICS IN BIODIVERSITY, EVOLUTION AND ECOLOGY
2004-2014	Laboratory course leader BIO-350 POLLEN ANALYSIS (5ECTS, 5-10 students)
1998-2001	Field assistant and laboratory course leader on BB201 ECOLOGICAL AND PALAEOECOLOGICAL FIELD METHODS (5 ECTS, 5-10 students)
1997–1999	Field -, laboratory - and teaching assistant on B100 BASIC BIOLOGY

PhD students

2021 – 2025	Christian Quintana	Supervisor, BIO, UiB
2019 – 2020	Evi L. Naudts	Co-supervisor, GEO/BIO, UiB
2019 – 2023	Maaïke Zwier	Supervisor, BIO, UiB
2017 – 2019	Lydia S. Messingfeld	Supervisor, BIO, UiB
2011 – 2014	Vivian A. Felde	Supervisor, BIO, UiB/Uni Research
2008 – 2013	Isabella Kasin	Co-supervisor, NMBU
2007 – 2011	Ingelinn Aarnes	Co-supervisor, BIO, UiB
2007 -	Kristine Fjordheim	Co-supervisor, BIO, UiB

MSc students

2020 – 2022	George E. Young	Co-supervisor, GEOG, UiB
2020 – 2021	Vemund R. Opedal	Co-supervisor, NMBU
2020 – 2021	Sondre K. Sørdsal	Co-supervisor, BIO, UiB
2016 – 2019	Kristina F. Svare	Co-supervisor, BIO, UiB
2017 – 2018	Ardian H. Abaz	Internal supervisor, BIO/Bergen Museum, UiB

2017 – 2018	Ingrid Toresen	Internal supervisor, BIO/Bergen Museum, UiB
2009 – 2010	Ingeborg Helvik	Supervisor, BIO, UiB
2007 - 2008	Anveig Nordtug Wist	Co-supervisor, NMBU
2006 – 2007	Kjersti Ane Bredesen	Co-supervisor, NMBU

BSc students

2020	Maren S. Johansen	Supervisor, BIO, UiB
2016	Camena Costa	Supervisor, BIO, UiB
2015	Amanda Nylund	Supervisor, BIO, UiB

PUBLICATIONS AND OUTREACH ACTIVITIES

THESES

- **Bjune, A.E.** 2004. Holocene vegetational and climatic history at or near tree-line in contrasting areas of Norway inferred from pollen and plant macrofossils in lake sediments. Dr. scient thesis, Department of Biology, UoB. ISBN-82-7460-015-0.
- **Bjune, A.E.** 1998. "Fôropptak hos Svalbardreinen (*Rangifer tarandus platyrhynchus*) vist ved pollen- og vegetasjonsanalyser". Cand. scient thesis, Botanical institute, UoB.

BOOK CHAPTERS

- I. **Bjune, AE.** 2018. Paleophytogeography. In: Elias, S.A. (ed) *The Encyclopedia of Quaternary Science*, vol. 2, pp.730-733.
- II. **Bjune, AE,** Krzywinski, K. & Overland, A. 2013. Palynological investigations in the sanctuary of Athena Alea. In: Østby, E. (ed) *TEGEA II. Investigations in the sanctuary of Athena Alea 1990-94 and 2004. Papers and Monographs from the Norwegian Institute at Athens*, Vol. 4, pp. 443-452.
- III. Larsen, J, Paasche, Ø, Andersen, DO, **Bjune, AE** & de la Riva Caballero, A. 2006. Sedimentary diatom assemblages in a small alpine west Norwegian lake: evidence for metal release and precipitation? In: Witkowski, A. (ed.): *Eighteenth International Diatom Symposium 2004*. Bristol: Biopress Ltd., pp. 221-234.
- IV. Nesje, A, Jansen, E, Birks, HJB, **Bjune, AE** and eight co-authors. 2005. Holocene climate variability in the Northern North Atlantic Region: A review of terrestrial and marine evidence. In: Drange, H., Dokken, T., Furevik, T., Gerdes, R. & Berger, W. *The Nordic Seas: An Integrated Perspective. Oceanography, Climatology, Biogeochemistry, and Modeling*. American Geophysical Union Geophysical Monograph 158, pp. 289-322.

PEER-REVIEWED PAPERS

- 1) **Bjune, A.E.,** Alsos, I.G., Brendryen, J., Edwards, M.E., Hafliðason, H., Johansen, M.S., Mangerud, J., Paus, Aa., Regnell, C., Svendsen, J.I. & Clarke, C. 2021. Rapid climate change during the Lateglacial and the early Holocene as seen from plant community dynamics in the Polar Urals, Russia. *Journal of Quaternary Science*, DOI: 10.1002/jqs.3352.
- 2) Gya, R. & **Bjune, A.E.** 2021. Taking practical learning in STEM education home: Examples from do-it-yourself experiments in plant biology. *Ecology and Evolution*, DOI: 10.1002/ece3.7207.
- 3) Clarke, C.L., Alsos, I.G., Edwards, M.E., Paus, A., Gielly, L., Hafliðason, H., Mangerud, J., Regnell, C., Hughes, P.D.M., Svendsen, J.I. & **Bjune, A.E.** 2020. A 24 000-year ancient DNA and pollen record from the Polar Urals reveals temporal dynamics of arctic and boreal plant communities. *Quaternary Science Reviews*, <https://doi.org/10.1016/j.quascirev.2020.106564>
- 4) Ballen, C., Aguilon, S.M., Awwad, A., **Bjune, A.E.,** Challou, D., Drake, A.G., Driessen, M., Ellozy, A., Ferry, V.E., Goldberg, E.E., Harcombe, W., Jensen, S., Jørgensen, C., Koth, Z., McGaugh, S., Mitry, C., Mosher, B., Mostafa, H., Petipas, R.H., Soneral, P.A.G., Watters, S., Wassenberg, D., Weiss, S.L., Yonas, A., Zamudio, K.R. & Cotner, S. 2019. Smaller class promote equitable student participation in STEM. *BioScience*, 69, 8, 669-680.
- 5) Reitalu, T., **Bjune, A.E.,** Blaus, A., Giesecke, T., Helm, A., Matthias, I., Peglar, S.M., Salonen, S.J., Seppä, H., Väli, V. & Birks, H.J.B. 2019. Patterns of modern pollen and plant species richness across northern Europe. *Journal of Ecology*, 107, 4, 1662-1677.

- 6) Fjordheim, K, Moen, A, Hjelle, KL, **Bjune, AE** & Birks, HH. 2018. Modern pollen-vegetation relationships in traditionally mown and unmanaged boreal rich-fen communities in central Norway. *Review of Paleobotany and Palynology* 251, 14-27.
- 7) Felde, VA, Grytnes, J-A, **Bjune, AE**, Peglar, SM & Birks, HJB. 2018. Are diversity trends in western Scandinavia influenced by post-glacial dispersal limitation? *Journal of Vegetation Science*, 29, 360–370.
- 8) Marquer, L, Gaillard, M-J, Sugita, S, Poska, A, Trondman, A-K, Mazier, F, Nielsen, AB, Fyfe, RM, Jönsson, AM, Smith, B, Kaplan, JO, Alenius, T, Birks, HJB, **Bjune, AE**, Christiansen, J, Dodson, J, Edwards, KJ, Giesecke, T, Herzsuh, U, Kangur, M, Koff, T, Latalowa, M, Lechterbeck, J, Olofsson, J & Seppä, H. 2017. Quantifying the effects of land use and climate on Holocene vegetation in Europe. *Quaternary Science Reviews*, 171, 20-37.
- 9) Felde, VA, Peglar, SM, **Bjune, AE**, Grytnes, J-A. & Birks, HJB. 2016. Modern pollen–plant richness and diversity relationships exist along a vegetational gradient in southern Norway. *The Holocene*, 26, 2, 676-697.
- 10) Birks, HJB, Felde, VA, **Bjune, AE**, Grytnes, J-A, Seppä, H & Giesecke, T. 2016. Does pollen-assemblage richness reflect floristic richness? A review of recent developments and future challenges. *Review of Paleobotany and Palynology*, 228, 1-25.
- 11) Battarbee, RW., Lamb, H., Bennett, K., Edwards, M., **Bjune, AE.**, Kaland, PE., Berglund, BE., Lotter, AF., Seppä, H., Willis, KJ., Herezschuh, U. & Birks, HH. 2015. John Birks: Pioneer in quantitative palaeoecology. *The Holocene*, 25, 3-16.
- 12) **Bjune, A.E.**, Grytnes, J-A., Jenks, C.R., Telford, R.J. & Vandvik, V. 2015. Is palaeoecology a “special branch” of ecology? *The Holocene*, 25, 17-24.
- 13) Seppä, H., Schurgers, G., Miller, P.A., **Bjune, A.E.**, Giesecke, T., Köhl, N., Renssen, H. & Salonen, J.S. 2015. Trees tracking a warmer climate: The Holocene range shift of hazel (*Corylus avellana*) in Northern Europe. *The Holocene*, 25, 53-63.
- 14) Trondman, A-K., Gaillard, M-J., Mazier, F., Sugita, S., Fyfe, R., Nielsen, A.B., Twiddle, C., Barratt, P., Birks, H.J.B, **Bjune, A.E.**, Björkman, L., Broström, A., Caseldine, C., David, R., Dodson, J., Dörfler, W., Fischer, E., van Geel, B., Giesecke, T., Hultberg, T., Kalnina, L., Kangur, M., van der Knaap, P., Koff, T., Kuneš, P., Lagerås, P., Latalowa, M., Lechterbeck, J., Leroyer, C., Leydet, M., Lindbladh, M., Marquer, L., Mitchell, F., Odgaard, B.V., Peglar, S., Persson, T., Poska, A., Rösch, M., Seppä, H., Smith, A., Wick, L. 2015. Pollen-based quantitative reconstructions of past land-cover in NW Europe between 6k years BP and present for climate modelling. *Global Change Biology*, 21, 676-697.
- 15) Pirzamanbein, B., Lindström, J., Poska, A., Sugita, S., Trondman, A-K., Fyfe, R., Mazier, F., Nielsen, A.B., Kaplan, J.O., **Bjune, A.E.**, Birks, H.J.B., Giesecke, T., Latalowa, M., Marquer, L., Smith, B. & Gaillard, M-J. 2014. Creating spatially continuous maps of past land cover from point estimates: A new statistical approach applied to pollen data. *Ecological Complexity*, 20,127-140.
- 16) Felde, V.A., Peglar, S.M., **Bjune, A.E.**, Grytnes, J-A. & Birks, H.J.B. 2014. The relationship between vegetation composition, vegetation zones and modern pollen assemblages in Setesdal, southern Norway. *The Holocene*, 24, 985-1001.
- 17) Felde, V.A., **Bjune, A.E.**, Grytnes, J.A. & Birks, H.J.B. 2014. A comparison of novel and traditional numerical methods for the analysis of modern pollen assemblages from major vegetation-landform types. *Review of Paleobotany and Palynology*, 210, 22-36.
- 18) Eldevik, T., Risebrobakken, B., **Bjune, A.E.**, Andersson, C., Birks, H.J.B., Dokken, T.M., Drange, H., Glessmer, M.S., Li, C., Nilsen, J.E.Ø., Otterå, O.H., Richter, K. & Skagseth, Ø. 2014. A brief history of climate - the northern seas from the Last Glacial Maximum to global warming. *Quaternary Science Reviews*, 106, 225-246.
- 19) Strandberg, G., Kjellström, E., Poska, A., Wagner, S., Gaillard, M-J., Trondman, A-K., Mauri, A., Birks, H.J.B., **Bjune, A.E.**, Davis, B.A.S., Fyfe, R., Giesecke, T., Kalnina, L., Kangur, M., Kaplan, J.O., van der Knaap, W.O., Kokfelt, U., Kunes, P., Latalowa, M., Marquer, L., Mazier, F., Nielsen, A.B., Smith, B., Seppä, H. & Sugita, S. 2014. Regional climate model simulations for Europe at 6k and 0.2k years BP: sensitivity to changes in anthropogenic deforestation. *Climates of the Past*, 10, 661-680.
- 20) Marquer, L., Gaillard, M-J., Sugita, S., Trondman, A-K., Mazier, F., Nielsen, A.B., Fyfe, R.M., Odgaard, B.V., Alenius, T., Birks, H.J.B., **Bjune, A.E.**, Christiansen, J., Dodson, J., Edwards, K.J., Giesecke, T., Herzsuh, U., Kangur, M., Lorenz, S., Poska, A., Schult, M. & Seppä, H. 2014. Holocene changes in vegetation composition in northern Europe: why pollen-based quantitative reconstructions matter? *Quaternary Science Reviews*, 90, 199-216.

- 21) Birks, H.H., Aarnes, I., **Bjune, A.E.**, Brooks, S.J., Bakke, J., Kühl, N. & Birks, H.J.B. 2014. Late-glacial and early-Holocene climate variability reconstructed from multi-proxy records on Andøya, northern Norway. *Quaternary Science Reviews*, 89, 108-122.
- 22) **Bjune, A.E.** & Willis, K.J. 2014. It's all in the detail: a tribute to Hilary Birks and her contributions to palaeoecology. *Vegetation History and Archaeobotany*, 23: 175-176.
- 23) **Bjune, A.E.** 2014. After 8 years of annual pollen trapping across tree line in western Norway – are the data still anomalous? *Vegetation History and Archaeobotany*, 23: 299-308.
- 24) Ohlson, M., Kasin, I., Wist, A.N. & **Bjune, A.E.** 2013. Size and spatial structure of the charcoal pool across a boreal forest watershed including its lake sediment. *Quaternary Research*, 80, 417-424.
- 25) Davis, B.A.S., Zanon, M., Collins, P., Mauri, A., Bakker, J., Barboni, D., Barthelmes, A., Beaudouin, C., **Bjune, A.E.**, Bozilova, E., Bradshaw, R.H.W., Brayshaw, B.A., Brewer, S., Brugiapaglia, E., Bunting, J., Connor, S.E., de Beaulieu, J-L., Edwards, K., Ejarque, A., Fall, P., Florenzano, A., Fyfe, R., Galop, D., Giardini, M., Giesecke, T., Grant, M.J., Guiot, J., Jahns, S., Jankovska, V., Juggins, S., Kahrmann, M., Karpinska-Kolaczek, M., Kolaczek, P., Kühl, N., Kunes, P., Lapteva, E.G., Leroy, S.A.G., Leydet, M., Lopez Saez, J.A., Masi, A., Matthias, I., Mazier, F., Meltsov, V., Mercuri, A.M., Miras, Y., Mitchell, F.J.G., Morris, J.L., Naughton, P., Nielsen, A.B., Novenko, E., Odgaard, B., Ortu, E., Overballe-Petersen, M.V., Pardoe, H.S., Peglar, S.M., Pidek, I.A., Sadori, L., Seppä, H., Severova, E., Shaw, H., Swieta-Musznicka, J., Theuerkauf, M., Tonkov, S., Veski, S., van der Knaap, W.O., van Leeuwen, J.F.N., Woodbridge, J., Zimny, M. & Kaplan, J.O. 2013. The European Modern Pollen Database (EMPD) project. *Vegetation History and Archaeobotany*, 22, 6, 521-530.
- 26) **Bjune, A.E.**, Helvik, I. & Birks, H.J.B. 2013. The *Fagus sylvatica* forests in the Larvik region, south-eastern Norway – their origin and history. *Vegetation History and Archaeobotany*, 22, 215-229.
- 27) Salonen, J.S., Seppä, H., Luoto, M., Birks, H.J.B. & **Bjune, A.E.** 2012. A North European pollen-climate calibration set: analysing the climatic responses of a biological proxy using novel regression tree methods. *Quaternary Science Reviews*, 45: 95-110.
- 28) Helama, S., Seppä, H., **Bjune, A.E.** & Birks, H.J.B. 2012. Fusing pollen-stratigraphic and dendroclimatic climate-proxy data to identify trends, anomalies, and tipping points in summer temperature during the past 7.5 ka in sub-arctic Fennoscandia. *Journal of Paleolimnology*, 48: 275-286.
- 29) Aarnes, I., **Bjune, A.E.**, Birks, H.H., Balascio, N.L., Bakke, J. & Blaauw, M. 2012. Vegetation responses to rapid climatic changes during the last deglaciation 13,500–8,000 years ago on southwest Andøya, arctic Norway. *Vegetation History and Archaeobotany*, 21:17–35.
- 30) Giesecke, T., Bennett, K.D., Birks, H.J.B., **Bjune, A.E.**, Bozilova, E., Feurdean, A., Finsinger, W., Froyd, C., Pkorný, P., Rösch, M., Seppä, H., Tonkov, S., Valsecchi, V. & Wolters, S. 2011. The pace of Holocene vegetation change – testing for synchronous developments. *Quaternary Science Reviews*, 30, 2805-2814.
- 31) Willis, K.J., Feurdean, A., Birks, H.J.B., **Bjune, A.E.**, Breman, E., Broekman, R., Grytnes, J-A., New, M., Singarayer, J.S. & Rozema, J. 2011. Quantification of UV-B flux through time using UV-B-absorbing compounds contained in fossil *Pinus* sporopollenin. *New Phytologist*, 192: 553–560.
- 32) Krüger, L.C., Paus, Aa., Svendsen, J-I. & **Bjune, A.E.** 2011. Lateglacial vegetation and palaeoenvironment in W Norway, with new pollen data from the Sunnmøre region. *Boreas*, 40, 616–635.
- 33) Birks, H.J.B., Heiri, O., Seppä, H. & **Bjune, A.E.** 2010. Strengths and weaknesses of quantitative climate reconstructions based on Late-Quaternary biological proxies. *The Open Ecology Journal*, 3, 68-110.
- 34) Helama, S., Seppä, H., Birks, H.J.B. & **Bjune, A.E.** 2010. Reconciling pollen-stratigraphical and tree-ring evidence for high- and low-frequency temperature variability in the past millennium. *Quaternary Science Reviews*, 39, 3905-3918.
- 35) Gaillard, M-J., Sugita, S., Mazier, F., Trondman, A-K., Broström, A., Hickler, T., Kaplan, J.O., Kjellström, E., Kokfelt, U., Kuneš, P., Lemmen, C., Miller, P., Olofsson, J., Poska, A., Rundgren, M., Smith, B., Strandberg, G., Fyfe, R., Nielsen, A.B., Alenius, T., Balakauskas, L., Barnekow, L., Birks, H.J.B., **Bjune, A.**, Björkman, L., Giesecke, T., Hjelle, K., Kalnina, L., Kangur, M., van der Knaap, W.O., Koff, T., Lagerås, P., Latałowa, M., Leydet, M., Lechterbeck, J., Lindbladh, M., Odgaard, B., Peglar, S., Segerström, U., von Stedingk, H. & Seppä, H. 2010. Holocene land-cover reconstructions for studies on land cover-climate feedbacks. *Climates of the Past* 6, 483–499.
- 36) Seppä, H., Birks, H.J.B., **Bjune, A.E.** & Nesje, A. 2010. Current continental palaeoclimatic research in the Nordic region (100 years since Gunnar Andersson 1909) – Introduction. *Boreas*, 39, 649-654.
- 37) **Bjune, A.E.**, Birks, H.J.B., Peglar, S.M. & Odland, A. 2010. Developing a modern pollen-climate calibration data-set for Norway. *Boreas*, 39, 674-688.

- 38) Birks, H.H. & **Bjune, A.E.** 2010. Can we detect a west-Norwegian tree-line from modern samples of plant remains and pollen? Results from the DOORMAT project. *Vegetation History and Archaeobotany*, 19, 4, 325-340.
- 39) De la Riva-Caballero, A., Birks, H.J.B., **Bjune, A.E.**, Birks, H.H. & Solhøy, T. 2010. Oribatid mite assemblages across tree-line in western Norway and their representation in lake sediments. *Journal of Palaeolimnology*, 44, 361-374.
- 40) Velle, G., **Bjune, A.E.**, Larsen, J. & Birks, H.J.B. 2010. Holocene climate and environmental history at Brurskardstjørni, south-central Norway. *Hydrobiologia*, 642, 13-34.
- 41) Moe, D. & **Bjune, A.E.** 2009. Attractive spring-food for willow grouse (*Lagopus lagopus lagopus* L) studied using plant macrofossils and pollen in faeces: a methodological discussion. *Grana*, 4, 310-315.
- 42) Kaufman, D.S., Schneider, D.P., McKay, N.P., Ammann, C.M., Bradley, R.S., Briffa, K.R., Miller, G.H., Otto-Bliesner, B.L., Overpeck, J.T., Vinther, B.M., Arctic Lakes 2k Project Members (Abbott, M., Axford, Y., Bird, B., Birks, H.J.B., **Bjune, A.E.**, Briner, J., Cook, T., Chipman, M., Francus, P., Gajewski, K., Geirsdóttir, A., Hu, F.S., Kutchko, B., Lamoureux, S., Loso, M., MacDonald, G., Peros, M., Porinchu, D., Schiff, C., Seppä, H., Thomas, E.) 2009. Recent warming reverses long-term arctic cooling. *Science*, 325, 1236-1239.
- 43) **Bjune, A.E.**, Ohlson, M., Birks, H.J.B. & Bradshaw, R.H.W. 2009. The development and local stand-scale dynamics of a *Picea abies* forest in south-eastern Norway. *The Holocene*, 19, 7: 1073–1082.
- 44) Seppä, H., **Bjune, A.E.**, Telford, R.J., Birks, H.J.B. & Veski, S. 2009. Last nine-thousand years of temperature variability in Northern Europe. *Climates of the Past*, 5, 523-535.
- 45) **Bjune, A.E.**, Birks, H.J.B. & Seppä, H. 2009. Quantitative summer-temperature reconstructions for the last 2000 years based on pollen-stratigraphical data from northern Fennoscandia. *Journal of Palaeolimnology*, 1: 43-56.
- 46) Giesecke, T., **Bjune, A.E.**, Chiverrell, R.C., Seppä, H., Ojala, A.E.K. & Birks, H.J.B. 2008. Exploring Holocene continentality changes in Fennoscandia using present and past tree distributions. *Quaternary Science Reviews*, 27: 1296-1308.
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- 48) Bakke, J., Lie, Ø., Dahl, S.O., Nesje, A. & **Bjune, A.E.** 2008. Strength and spatial patterns of the Holocene wintertime westerlies in the NE Atlantic region. *Global and Planetary Change*, 60: 28-41.
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- **Bjune, A.E.** & Kindem, I.T. 2008. Kloden har feber! Om klima, skremselspropaganda og big business. Bokessay, *Prosa 2*, p. 20-25.
- **Bjune, A.E.** 2008. Klima og vegetasjon etter siste istid – Hardangervidda og Folgefonna. Hardanger historielag årbok 2009, p. 51-57.
- **Bjune, A.E.**, Birks, H.J.B. & Birks, H.H. 2007. Planter og fortidens klima. *Ottar 2*, p. 32-38.
- Bakke, J., **Bjune, A.E.** & Dahl, S.O. 2007. Brear og klima i Nordland attende til istida. *Ottar 2*, p. 24-31.
- **Bjune, A.E.**, Bakke, J., Nesje, A. & Birks, H.J.B. 2006. Ekstremnedbør i tidligere tider. *Cicerone 1*, p. 29-31.
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- **Bjune, A.E.** & Larsen, J. 2003. Arkivet i innsjøen. *AKA 9*, p. 13-14.
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MEDIA AND OUTREACH

2020

Bondevennen – Bonden star sentralt i klimakampen

Klar tale – Snøkløkker i januar

2019

NRK – Snowhow – episode 1 – Desember 2019

PAN/Harvest – "Det korte og det lange karbonkretsløpet" March 2019

Bjerknes.uib.no – Bjerknes-forskere tar del i ny WWF-rapport, April 2019

NRK P1+ - Frokostradio om karbonlagring i skog, July 2019

2018

PAN/Harvest – «Jorda er vårt viktigste karbonlager», Desember 2018

UIB kommunikasjon – blomstring om vinteren, 19.12

NRK Hordaland (radio) – blomstring om vinteren, 13.12

Bjerknessenteret podcast – Å samle pollen, 05.09

Bergens Tidende – Fjellskogen ved Rundemannen tørker, 20.07

Bjerknes.no – Når trærne får vinger, 23.05

Morgenbladet – Hva er en skidag? 16.02

Energi & Klima - Skogsdrift medfører utslipp som må med i regnskapet. Landbruket som karbonlager. 20.03

Bergensavsnien – Frykter at Byfjellene gror igjen, 24.03

2017

Godt klima for språk - <http://www.sprakradet.no/Vi-og-vart/Publikasjoner/Spraaknytt/spraaknytt-12017/godt-klima-for-sprak/>

2014

Dagens Næringsliv - Tilbake til fremtiden, 20.09

2012

bt.no – Halve tjernet er forsvunnet, 26.09

Bergens Tidende - Landbruket og klima, 23.09

2010

TV2 Nyhetskanalen, Nyhetsfrokost, Råd mot pollenallergi, 23.05

2009

Fanaposten "Håper å finne historiske svar", 03.11

Hubro "Varmest siden år 0", 3/2009, October

forskning.no "Varmt i arktiske strøk", 08.09

På Høyden "Varmest siden år 0", 04.09

Bergens Tidende "Skog og gras trugar villreinens rike" 05.08

"Verdt å vite" NRK P2, 22.04

yr.no "Våren spiser av vinteren" <http://www.yr.no/nyheter/1.6577128>, 22.04

2008

Varden *Borer seg 10 000 år tilbake i tid i Siljan* 26.02

NRK Telemark radio interview 28.02

News; "Nyhetene Østafjells" og "Norge i Dag" <http://www1.nrk.no/nett-tv/indeks/124032> 28.02

NRK Østafjells web pages "*Gull i søl*" www.nrk.no/nyheter/distrikt/ostafjells/telemark/1.495497728.02

Feature article Nationen– *Kortvarig lykke?* 31.10

2007

Interview Kvinner & Klær no. 16, April, page 60-64. *Den nye allergibomben*.

Bergens Tidende – *Klimapanelet* on bt.no/klima – member from September 2007 to September 2008.

Feature article Bergens Tidende, *Ser ikke Vidda for bare trær*. 22.11

Interview Bergens Tidende, *Hardangervidda blir skogkledd*. 22.11

Ut i Naturen, NRK1 "*Tusen meter norsk natur*" 27.11

POPULAR PRESENTATIONS

- *Naturen, miljøet og klimaet i vestlandske fjell, fjorder og bystrøk i maleriene til J.C. Dahl*, KODE, October 2018.
- *Fortidens pollen, planter og klima*, Fagdag, Naturhistorisk avdeling, Bergen Museum, April 2017.
- *Tregrenser en sak med flere sider*, Foredrag Forskningsdagene 2016.
- *Bøkeskogene i Larviksområdet – deres opphav og historie*, Norsk Botanisk forening, Vestlandsavdelingen, 13.03.2012
- *Blant planter og pingviner på Sør-Georgia*, Ulsmåg skole, 24.02.2012
- *Langsiktige endringer i biomangfold - paleoøkologiske resultater*, Skog og tre konferansen, 2011.
- *Skog og biologisk mangfold i et langt tidsperspektiv*, Lunsjseminar Skog og landskap, Bergen, 25.05.2011.
- *Se på pollenkorn og avslør fortidens klima*, Forskningsdagene i Bergen, 03.10.2010
- *Rekonstruksjon av fortidsklima ved hjelp av sedimentkjerner*, poster Forskningsdagene i Bergen, 25.09.2010
- *Fra skog til klima*, Skogselskapet i Østfold, Sarpsborg, 22.10.09.
- *Fortidens klima og vegetasjon*, Bergen Næringsråd, 01.10.2009
- *Fortidens, nåtidens og fremtidens skoger i Sør-Norge sett i lys av klimaendringer*, Nordisk skogshistorisk seminar, Sandnessjøen, 27.08.09.
- *Fortidens, nåtidens og fremtidens skoger i Vestfold sett i lys av klimaendringer*, Fylkesmannen i Vestfold, Tønsberg, 02.03.09.
- *Forventede klimaendringer – påvirkning på vegetasjon*, Friluftskonferansen, Arendal, 18.06.2009.
- *Fortidens, nåtidens og fremtidens skoger i Hordaland sett i lys av klimaendringer*, Fagpedagogisk dag, UiB, 06.02.09.
- *Vegetasjonshistorien avslører fremtidens klima*, PopVit presentation, Vil Vite, 07.09.08.
- *Fortidens, nåtidens og fremtidens skoger i Hordaland sett i lys av klimaendringer*, Fylkesmannen i Hordaland, Bergen, 21.05.08

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- ii. Hjelle, K.L., **Bjune, A.E.**, Overland, A. 2005. Vegetasjonshistoriske undersøkelser i forbindelse med Ormen Lange-prosjektet, Gossen, Aukra kommune, Møre og Romsdal. In: *Arkeologisk registrering på Gossen/Nyhamna, Aukra kommune. Ormen-Lange prosjektet. Kulturhistoriske skrifter og rapporter 3*. Molde: Kulturavdelinga. Møre og Romsdal fylke 2005. ISBN 82-994162-4-8. p. 203-236.
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- iv. Birks, H.H., Peglar, S. & **Bjune, A.** 2000. CASSARINA final report of results: Lithostratigraphy and biostratigraphy (pollen, macrofossils, molluscs, ostracods) of the secondary sediment cores from the CASSARINA sites, and heavy metal stratigraphy of the primary cores. Final report from the Bergen partner.
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- ix. **Bjune, A. E.** 1999. Landskapshistorisk forprosjekt 1999: *Vegetasjonshistoriske studier innenfor regionfelt Østlandet, Åmot kommune, Hedmark fylke*. In: Risbøl, O., Vaage, J., Ramstad, M., Narmo, L.E., Høgseth, H.B. & Bjune, A. *Kulturminner og kulturmiljø i Gråfjell, Regionfelt Østlandet, Åmot kommune i Hedmark. Arkeologiske registreringer 1999, fase 1. NIKU oppdragsmelding 093*, p. 130-149.
- x. **Bjune, A.** & Overland, A. 1998. *Tracing the cultural landscape of Arcadia*. Botanical part of the Norwegian Arcadia Survey. Report from the first field season. Botanical institute, UoB.