

CHRISTIAN HAUG EIDE: CV, JANUARY 2020

Name: Christian Haug Eide E-mail: christian.eide@uib.no
Date of birth: 13/02/1986 Phone: +47 911 21 561
Address: Steinkjellerbakken 8, 5003 BERGEN Civil status: Cohabiting
Website: <http://www.uib.no/en/persons/Christian.Haug.Eide>
Languages: Norwegian (native), English (fluent), German (elementary)



I am an Associate Professor at the University of Bergen. My research is broad and is based in clastic sedimentology, which is the study of how pieces of rock break down, are transported and deposited. This is important as these deposits tell the history of the Earth, and because these pieces of rock may act as reservoirs, resources or hazards to society. My research focuses on how uplands and sedimentary basins are connected in space and time, on how sedimentary environments vary and build up the sedimentary record, and how sedimentary architecture impacts the flow of fluids and intrusions in sedimentary basins.

MAIN RESEARCH INTERESTS

- *Using insights from modern sedimentary systems to understand ancient systems
- *Understanding how heterogeneity in sedimentary deposits can be predicted in limited, subsurface datasets
- *Understanding how volcanic intrusions are influenced by sedimentary host rock
- *Using sedimentary records of geohazards to improve resilience towards avalanches and floods

EMPLOYMENT

- 2018- Associate professor in clastic sedimentology - University of Bergen.
- 2018-2018 Researcher in sedimentary geology - University of Bergen.
- 2015-2018 Postdoctoral research fellow in source-to-sink-studies/sedimentology – University of Bergen.
- 2013-2015 Senior researcher in reservoir geology – Uni Research CIPR.
- 2010-2014 PhD in sedimentology: Shallow-marine facies and virtual outcrop geology - Uni Research CIPR/University of Bergen

EDUCATION

- 2008-2010 Master of Geoscience (marine/petroleum) – University of Bergen.
- 2005-2008 Bachelor's Degree in Geophysics – University of Bergen.
- 2002-2005 Allmenne fag – Måløy vidaregåande skule. Specialization in physics, math and chemistry.

PROJECT MANAGEMENT

- 2021-2024 Work package leader in the 22.5 M€ NFR-supported GEOPARD (Geostatistical Event-based Object-model Predicted from Analogue Reservoir Deposits) project (*WP1: Definition of geological rules*). 1 postdoc at the University of Bergen.
- 2020-2022 Project co-leader and main supervisor in the 5 MNOK Equinor-supported *Marine ground*

surveys for offshore wind installations-project. 1 PhD at the University of Bergen

- 2019-2023 **Work package leader in the 4 M€ European Research Council-funded Horizon 2020 ITN Project S2S-Future:** Signal Propagation in source to sink for the Future of Earth Resources and Energies (*WP1: Understanding perennial S2S dynamics in response to long-term tectonic and climatic signals in deep time*). 2 PhDs at the University of Bergen.
- 2020-2022 Project leader for the 1.6 MNOK NFR-supported FueBAR-project (Fluid modelling, uplift and erosion of the Greater Barents Sea) to integrate sedimentary evidence with thermochronology and modelling to understand uplift, erosion and fluid flow in the Greater Barents Sea Basin.
- 2018-2019 Project leader for the 750 KNOK project initiated by the Norwegian Petroleum Directorate to revise the Triassic stratigraphy of the Barents Sea. 1 fixed term-researcher position.
- 2018-2022 **Project leader for the 14 MNOK NFR-supported ISBAR project** (Internal and external forcing factors on the Source-to-Sink infill dynamics of the Lower Mesozoic Barents Sea Basin). 2 postdocs, 1 researcher, 1 PhD.
- 2018-2020 Project leader for the 3.1 MNOK OMV-supported Triassic Basin Infill-project (Triassic basin infill). 2 postdocs, 1 researcher, 1 PhD.

PROFESSIONAL MERITS AND ACHIEVEMENTS

21 Papers published in peer-reviewed journals, **1** accepted in revision, **1** currently in review. **1** book chapter. 466 citations, H-factor of 13. Main supervisor for 5 PhD student and 16 MSc students.

Examiner of **1** external PhD thesis (Uni Copenhagen), and **3** PhD theses at the University of Bergen.

- 2019 Admitted to the MOMENTUM Career Development Program for Young Researchers at the University of Bergen

AWARDS AND NOMINATIONS

- 2019 Primary supervisor for MSc Aasmund Løvestad, recipient of Halliburton's *Earth Model Award* 2018 for the MSc thesis "Mudstone-rich fluvial systems as reservoirs: The Brushy Basin Member of the Morrison Formation, Eastern Utah".
- 2019,2018 Nominated by students for the **Teaching Award** at the Faculty of Mathematics and Natural Science at the University of Bergen
- 2018 Recipient of the **Journal of the Geological Society's Early Career Award 2017**
- 2018 Co-author on Senger et al's 2018 paper *Effects of igneous intrusions on petroleum system: a review in First Break* which received **EAGE's 2018 Nigel Anstey Award**

TEACHING EXPERIENCE

- 2014- **Course responsible** for GEOV352 – **Petroleum geological field course** to central Utah
- 2017- **Course responsible** and lecturer GEOV360– **Advanced clastic sedimentology**

2016- biannually	Field course leader and course co-responsible in GEOV362 - Pyrenean tectonics and sedimentology field course to the Spanish Pyrenees
2017	Substitute lecturer, Geoscience 101 (one lecture on geology of resources)
2016-2017	Field course teacher in GEOV217 – Geohazards
Fall 2017	Lecturer in GEOV107 – Introduction to sedimentology and stratigraphy
2015-2017	Led (2016) and taught (2015, 2017) in the core-workshop part of UiB GEOV 361 sequence stratigraphy course
2014- annually	Teaching in both the classroom and the field (Ulven, Os municipality) for high school students in the <i>International Earth Science Olympiad</i>

SUCCESSFUL PROJECT APPLICATIONS

2020	Aarnes, I; Hauge, R; Skauvold, J; Vazquez, AA; Eidsvik, J; Eide, Christian Haug ; Howell, J: GEOPARD - Geostatistical Event-based Object-model Predicted from Analogue Reservoir Deposits, 22.5 MNOK (2.6 MUSD), Norwegian Research Council, Collaborative and Knowledge-building Project Knowledge-building Project
2019	Guillocheau, F; Castelltort, S; Whittaker, A; Schlunegger, F; Pucéat, E, Eide, Christian Haug ; Braun, J; Midtkandal, I; Garcés, M; van Balen, RT et al., S2S-Future: SIGNAL PROPAGATION IN SOURCE TO SINK for the FUTUre of Earth Resources and Energy, 4 035 109 € (39.4 MNOK) , Horizon 2020: Marie Skłodowska-Curie Innovative Training Networks
2019	Eide, Christian Haug ; Sirevaag, H; Gilmullina, A; Jacobs, J; Suslova, A; Baranova, D: FueBAR: Fluid modelling, uplift and erosion of the Greater Barents Sea. 1.6 MNOK (c. 175 kUSD), PETROMAKS2: International Calls - Support for Bilateral Project
2019	Hafliðason, H; Eide, Christian Haug ; Nielsen, FG: Maringeologisk grunnundersøkelse for havvinds-installasjoner:Forskningsprosjekt for geologisk karakterisering av marine grunnforhold for sikker og kostnadseffektiv fundamentering av havvinds-installasjoner (<i>En: Marine-geological sub-seabed invstigation for seawind installations: geological characertrization for marine soil conditions for safe and cost-effective moorings for seawind installations</i>). AKADEMIA Agreement between university of Bergen and Equinor. 5 MNOK (c. 587 kUSD).
2019	Helland-Hansen, W., Nyberg, B., Gawtohrpe, RL., Nisancioglu, K., Eide, Christian Haug , Knudsen, S. Coastal Change: Predicting flooding and changing shorelines for the next 100 years of sea-level rise and changing land-use: Impact on nature and society. UiB CET accelerator funding. 150.000 NOK (c. 17.000 USD).
2017	Senger, Kim; Jensen, M; Buckley, S; Naumann, N; Grundvåg, S-A; Mertens, I; Eide, Christian Haug ; Lecomte, I; Nordmo, I; Mair, K; Galland, O; Gaina, C; Ogata, K; Guarnieri, P; Stemmerik, L; Coakley, B; Flaig, P; da Silveira Jr, L.G.. CAGE: Circum-Arctic Geology for Everyone: An integrated approach to learning and teaching in the Arctic (Project Year 2). UArctic, 250.000 NOK (c. 29.000 USD)
2016	Helland-Hansen, W; Gawthorpe, RL; Stoupakova, A; Olaussen, S; Hellevang, H; Klausen, TG;

Paterson, NW; **Eide, Christian Haug**; Suslova, AA; Grundvåg, SA; Katkov, D; Ryseth, A; Senger, K: ISBAR- Internal and external forcing factors on the Source-to-Sink infill dynamics of the Lower Mesozoic Barents Sea Basin. PETROMAKS II programme, **Norwegian Research Council. 14.365.000 NOK** (c. 1.700.000 USD).

2016 Senger, K; Jensen, M; Buckley, S; Naumann N.; Grundvåg, S.-A.; **Eide, Christian Haug**; Nordmo, I.,; Mair, K.; Galland, O.; Ogata, K.; Coakley, B.; and Flaig, P.; CAGE - Circum-Arctic Geology for Everyone: An integrated approach to learning and teaching in the Arctic. UArctic Programme, University of Tromsø. 250.000 NOK (c. 29.000 USD).

SUCCESSFUL APPLICATIONS FOR FUNDING OF COURSES

2017-20 **Eide, Christian Haug**; Fossen, H., Hesthammer, J: GEOV352: Reservoir Geological Field Course. Masters course to Utah, USA. AKADEMIA Agreement between university of Bergen and Equinor. 300.000 NOK (c. 36.000 USD) per year

2018,20 Rotevatn, Atle; **Eide, Christian Haug**: GEOV362: Integrated tectonics and sedimentology field course. Masters course to the Spanish Pyrenees. AKADEMIA Agreement between university of Bergen and Equinor. 300.000 NOK (c. 36.000 USD) per year

EXPEDITONS, PROJECTS, CONFERENCE ORGANIZATION

2021 Involved in planning the 2021 Norwegian Petroleum Society's **Reservoir Characterization Conference** in Sola

2019 Involved in planning the 2019 Norwegian Geological Associations **Winter Conference** in Bergen

2017 Field cruise participant on *F/F Hans Brattström* (HB17-211) to Aurland- and Fjærlandsfjorden

2016 Field cruise participant on the *F/F Hans Brattström* (HB16-201) to Aurland- and Lærdalsfjorden to core recent flood deposits

2016 Member of the **organizing committee of the 2nd Virtual Geoscience Conference**, Bergen, Norway. 22-23 Sept.

2012 **Two months stay at the University of Adelaide** to discuss various aspects related to my PhD and share data.

2012 **Field expedition to East Greenland to acquire geological data**

2011-2014 Board member of the Norwegian Geological Association, Bergen Chapter.

2009 Field assistant for Tore G. Klausen, master thesis fieldwork, in Utah, USA

2007 MAGNUS REX-experiment (MANTle investiGations of Norwegian Uplift Structure – Refraction EXperiment). Collaboration between universities of Oslo, Bergen and Copenhagen. Placed and retrieved geophones from Haukeligrend to Sauda in Southern Norway.

2004 Lived three weeks with a host family in Hungary, and worked at a transport company (DB Schenker) to learn about differences and similarities of business, trade and industry in Europe.

REVIEWED MANUSCRIPTS FOR THE FOLLOWING INTERNATIONAL JOURNALS:

Geology, Sedimentology, Basin Research, Journal of the Geological Society, Geosphere, Sedimentary Geology, Interpretation, Marine and Petroleum Geology, Bulletin of the Geological Society of Denmark, Petroleum Science, The Photogrammetric Record, Geological Journal.

Updated list: <https://publons.com/author/1231328/christian-haug-eide>

MEMBER OF THE FOLLOWING PROFESSIONAL SOCIETIES:

Norwegian Geological Association (NGF), British Sedimentological Research Group (BSRG), American Geophysical Union (AGU), American Association of Petroleum Geologists (AAPG), Norsk Petroleumforening (NPF)

SKILLS:

Geological field work, sedimentological core analysis, seismic interpretation (reflection and refraction), well log interpretation, reservoir modelling (RMS, Petrel), Seismic modelling (SeisRoX, RAYINVR), Gravimetric modelling (GRAVMAG), UAV ('drone') piloting, CT-scanning of core, vector graphics (Adobe Illustrator), experienced with Matlab, processing and interpretation of geological LIDAR data (SolidWorks, RiscanPro), photogrammetric processing (PhotoScan), scripting (AWK, Bash, Matlab), some experience in programming (Java), photo editing (Adobe Photoshop, Adobe Lightroom).

PERSONAL INTERESTS AND HOBBIES:

Photography, rock climbing, hiking, skiing, guitar. Travelled extensively across USA, Asia, Australia, and Europe.

CERTIFICATES:

Driving licence, boating licence

EXTERNAL COURSES TAKEN:

2017 IAS *"Field course to the Bay of Mt St Michel - a hypertidal coastal environment"*

2016 Norwegian Geological Survey's **Geohazards** field course to unstable slopes in Nordmøre

2015 Norwegian Geological Association's field trip to Andøya, **onshore Mesozoic sedimentary** rocks

2015 **Writing Successful Grants – A twelve Step Program** (Robert Potter, UiB-organized seminar)

2014 **Applied Ichnology** (SEPM short course) by James MacEachern and George Pemberton

2013 SEPM Sequence strat., architecture and coal geology of paralic successions, Kentucky

2013 University of Bergen **"Tress & Tress: how to publish in peer-reviewed journals"**

2012 Norwegian Petroleum Association field trip to the Wessex Basin, led by Andy Gale

- 2010 British Sedimentological Research Group field trip to Wales, led by Rob Hillier and Jaco Baas
- 2009 SVALEX: Statoil-led course to Svalbard about reservoir geology and work in oil companies.

SUPERVISION

(*p* indicates principal supervisor status, *c* indicates co-supervisor status, bold type indicates student has completed degree)

POSTDOC, N=1

- 2021-2024p 2: TBD, Postdoc, UiB: Definition of geological rules for rule-based reservoir modelling
- 2020-2023p 1: Hallgeir Sirevaag, **Postdoc**, UiB. Provenance of the Triassic of the Greater Barents Sea.

PHD, N=8 / 6 AS PRIMARY SUPERVISOR

- 2020-2023p 8: Lucas Valore, PhD, UiB: Influence of emplacement of large igneous provinces on source-to-sink systems (example from Shetland)
- 2020-2023p 7: Melanie Kling, PhD, UiB. Response of source-to-sink systems to major step-changes in environmental factors (examples from around the P/T boundary in the Barents Sea).
- 2020-2023p 6: Hannah Petrie, PhD, UiB. Marine-geological site surveys for offshore wind installations
- 2020-2023c 5: Hakan Heggernes, PhD, UiB: Deformation structures in porous sandstone: Network properties and impact on fluid flow
- 2019-2022c 4: Lauren Chedburn, PhD, University of Aberdeen. 'Overthickening' of Cretaceous sequences by Igneous Intrusions: Paleogeographic reconstruction of the Norwegian Margin
- 2019-2023p 3: Martin Kjenes, PhD, UiB. Controls on igneous architecture in sedimentary basins.
- 2018-2021p 2: Albina Gilmullina, PhD. Sedimentary dynamics in the Norwegian and Russian parts of the Barents Sea during the Triassic.
- 2017-2021c 1: Thomas Thuesen, PhD, UiB. Holocene sediment production and sediment volume partitioning in western Norwegian fjord-valley source-to-sink systems.

MSC, N=18 / 12 AS PRIMARY SUPERVISOR

- 2020-2022p 18: Solveig Dahl Nøttestad, MSc, UiB: Skredmodellering og kartlegging av snø- og sørpeskred fra historisk og geologisk tid ved Trollstigen, Rauma Kommune.
- 2020-2022p 17: Nora Fredheim, MSc, UiB: Paleogeography and distribution of Middle to Late Triassic reservoir rocks in the Greater Tampen Spur Region

- 2020-2022p 16: Vebjørn Selstad, MSc, UiB: Sorting effects in provenance: A case study from Roldan, Spain
- 2019-2021p 15: Anders Østigard, MSc, UiB. Fjordsedimenter som arkiv for skredhendelser i Vestlandske fjordstrøk: Aurlandsfjorden
- 2019-2021p 14: Anna Rebecca Dyrlev Bøgh, MSc, UNIS. 3D modelling and interpretation of channels in the Aspelintoppen Formation, Spitsbergen, Svalbard.
- 2018-2020c 13: Alma Dzozlic Bradaric, MSc. Seismic expression of injectite sands.**
- 2018-2020p 12: Anine Eikrem Helland, MSc, UiB. Using drones to quantify fractured cliffs for rockfall hazard assessment.**
- 2017-2019c 11: Sondre Hagevold, MSc, UiB/UNIS. From outcrop to synthetic seismic: 2D and 3D modelling of igneous intrusions at Botneheia, central Spitsbergen.**
- 2017-2019p 10: Jørgen Håstø Borgenvik, MSc, UiB/AkerBP: Reservoir characterization of the Stø Formation (Realgrunnen Subgroup) in the Fingerdjupet Subbasin, NW Barents Sea**
- 2017-2019c 9: Amalie Krog Klette, MSc, UiB: Holosene skred- og flomprosesser i Fjærlandsfjorden basert på marine data**
- 2017-2018p 8: Aasmund Løvestad, MSc, UiB. Mudstone-rich fluvial systems: Brushy Basin Member of the Morrison Formation, Utah, USA.**
- 2017-2018p 7: Espen Friestad, MSc, UiB. Synthetic seismic modelling of shallow-marine to paralic deposits: The Blackhawk Formation in Central Utah, USA.**
- 2017-2018c 6: Hedda Sofie Gjerdingen. MSc, UiB. Rekonstruksjon av flaumhistorie frå Flåmselvi frå marine kjernedata**
- 2016-2017p 5: Ole-Marius Solvang. MSc. Sedimentological outcrop study of the earliest Triassic Vardebukta and Tvillingodden Formations in West Spitsbergen**
- 2016-2018c 4: Øystein Grasdal. MSc, UNIS. Sedimentary architecture of sand bodies in the Paleocene Firkanten Fm, Svalbard**
- 2015-2017p 3: Malin Flesland. MSc: Volcanic rifted margins: comparing LIDAR data from outcrops of Traill Ø (East Greenland) with seismic data from the conjugate Møre Margin**
- 2013-2015c 2: Mette Lundberg. MSc: Petrology and Provenance of the Upper Cretaceous Strata in Central Utah**
- 2013-2015c 1: Ragnhild J. Tunheim. MSc: Mineralogical controls on the weathering characteristics of arid continental deposits of the Colorado Plateau**

OTHER POSITIONS OF TRUST:

Examiner for master theses several masters exams at Norwegian institutions (11x, 6 at other institutions in Norway [UiT, UiO]).

Examiner for written and oral exams several other institutions in Norway.

Participated in and led midway evaluation committees for PhD students at UiB (7x).

PUBLICATIONS:

Updated list: <https://scholar.google.com/citations?hl=en&user=j3LGYEAAAAAJ>

PEER REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS

JOURNALS (ACCEPTED, IN REVISION)

Mullins, JR., Nyberg, BEJ., **Eide, Christian Haug**, Comunian, A., Renard, P., Straubhaar, J. Weihmann, S., Hartley, A. and Howell, JA. *In revision 2020*; Extracting Meaningful Geostatistics from Virtual Outcrops for Reservoir Modeling. AAPG Bulletin.

JOURNALS (PUBLISHED AND IN PRESS)

(21) Gilmullina, A, Klausen, TG., Helland-Hansen, W., Paterson, NW., Suslova, A and **Eide, Christian Haug**, *In press 2021*; Regional correlation and seismic stratigraphy of Triassic Strata in the Greater Barents Sea Basin: 50 million years of deposition in an epicontinental basin. Basin Research. <https://doi.org/10.1111/bre.12526>

(20) Haile, B., Line, LH., Klausen, TG., Olausson, S., **Eide, Christian Haug**, Jahren, J. and Hellevang, H., in press 2020; A multidisciplinary approach for assessing provenance of recycled quartz grains – An example from the Mesozoic Barents Sea Basin. Basin Research. <https://doi.org/10.1111/bre.12526>

(19) Kim Senger , Peter Betlem , Thomas Birchall , Simon J. Buckley , Bernard Coakley , **Christian Haug Eide**, Peter P. Flaig , Melanie Forien , Olivier Galland , Luiz Gonzaga Jr. , Maria Jensen , Tobias Kurz , Isabelle Lecomte , Karen Mair , Rie Hjørnegaard Malm, Mark Mulrooney , Nicole Naumann , Ivar Nordmo , Nils Nolde, Kei Ogata , Ole Rabbel , Niklas W. Schaaf & Aleksandra Smyrak-Sikora; *in press 2020*. Using digital outcrops to make the high Arctic more accessible through the Svalbox database. *Journal of Geoscience Education*. <https://doi.org/10.1080/10899995.2020.1813865>

(18) Wrona, T., Fossen, H., Lecomte, I., **Eide, Christian Haug** and Gawthorpe, RL; *in press 2020*. Seismic expression of shear zones: Insights from 2-D Point-Spread-Function-based convolution modelling. *Journal of Structural Geology*. <https://doi.org/10.1016/j.jsg.2020.104121>

(17) Müller, Reidar; Klausen, Tore Grane, Faleide, Jan Inge; Olausson, Snorre; **Eide, Christian Haug**; Suslova, Anna, 2019. Linking regional unconformities in the Barents Sea to compression-induced forebulge uplift at the Triassic-Jurassic transition. *Tectonophysics*. <https://doi.org/10.1016/j.tecto.2019.04.006>

(16) Rossi, Valentina Marzia; Paterson, Niall William; Helland-Hansen, William; Klausen, Tore Grane and **Eide, Christian Haug**; 2019. Muddy delta-scale compound clinoforms and shelf-margin clinoforms interaction in the Triassic shelf of northern Pangea (Havert Fm., SW Barents Sea). *Sedimentology*. (OPEN ACCESS). <https://doi.org/10.1111/sed.12598>

- (15) Mark, Niall; Holford, Simon; Schofield, Nick; **Eide, Christian Haug**; Pugliese, Stefano; Watson, Douglas and Muirhead, David. 2020. Structural and lithological controls on the architecture of igneous intrusions: examples from the NW Australian Shelf. *Petroleum Geoscience*. <https://doi.org/10.1144/petgeo2018-067>
- (14) Ainsworth, B., Vakarelov, B., **Eide, Christian Haug**, Howell, J.A.; Bourget, J. 2019. Linking the high-resolution architecture of modern and ancient wave-dominated deltas: Processes, products and forcing factors. *Journal of Sedimentary Research*, 89, pp 168-185. <http://dx.doi.org/10.2110/jsr.2019.7>
- (13) Nyberg, Bjørn; Helland-Hansen, William; Gawthope, Robert L.; Sandbakken, Pål; **Eide, Christian Haug**; Sømme, Tor; Hadler-Jacobsen, Frode; Leiknes, Sture. 2018. Revisiting Morphological Relationships of Modern Source-to-Sink Segments as a First-Order Approach to Scale Ancient Sedimentary Systems. *Sedimentary Geology*. <https://doi.org/10.1016/j.sedgeo.2018.06.007>
- (12) **Eide, Christian Haug**; Schofield, N; Lecomte, I; Buckley, SJ; Howell, JA. 2018. Seismic Interpretation of Sill-Complexes in Sedimentary Basins: Implications for the 'Sub-Sill Imaging Problem'. *Journal of the Geological Society*, 175, pp 193-209. <https://dx.doi.org/10.1144/jgs2017-096>
- (11) **Eide, Christian Haug**, Müller, R, and Helland-Hansen W. 2018. Using climate to relate water-discharge and area in modern and ancient catchments. *Sedimentology*. <https://dx.doi.org/10.1111/sed.12426>
- (10) Galland O., Bertelsen H. S., **Eide, Christian Haug**, Guldstrand F., Haug Ø. T., Leanza H. A., Mair K., Palma O., Planke S., Rabbal O., Rogers B., Schmiedel T., Souche A., Spacapan J. B. 2018. Storage and transport of magma in the layered crust - formation of sills and related flat-lying intrusions. In Steffi Burchard (ed): Volcanic and Igneous Plumbing Systems – understanding magma transport, storage and evolution in the Earth's crust. Elsevier special volume. <https://doi.org/10.1016/B978-0-12-809749-6.00005-4>
- (9) Klausen, Tore Grane; Torland, JA; **Eide, Christian Haug**; Alaei, B; Olausson, S; Chiarella, D, 2018. Controls on clinofold development and topset evolution in a mud-rich delta - the Triassic Kobbe Formation, Norwegian Barents Sea. *Sedimentology*. <https://dx.doi.org/10.1111/sed.12417>
- (8) **Eide, Christian Haug**; Klausen, Tore G; Katkov, Denis; Suslova, Anna A; Helland-Hansen, William, 2018. Linking an Early Triassic delta to antecedent topography: source-to-sink study of the southwestern Barents Sea margin. *GSA Bulletin*, 130, pp 263-283. (OPEN ACCESS). <https://dx.doi.org/10.1130/B31639.1>
- (7) Senger, K; Millet, J; Planke, S; Ogata, K; **Eide, Christian Haug**; Festøy, M; Galland, O; Jerram, DA. 2017, Effects of igneous intrusions on petroleum system: a review. *First break*. 35 (4). [http://folk.uio.no/oliviega/Website/Publications/Papers/Senger et al., Intrusions and Petroleum, 2017.pdf](http://folk.uio.no/oliviega/Website/Publications/Papers/Senger_et_al.,_Intrusions_and_Petroleum,_2017.pdf) ; DOI: 10.3997/1365-2397.2017011 Recieved **EAGE's 2018 Nigel Anstey Award**.
- (6) **Eide, Christian Haug**; Schofield, Nicholas; Jerram, Dougal A.; Howell, John A. 2017, Basin-scale architecture of deeply emplaced sill complexes: Jameson Land, East Greenland. *Journal of the Geological Society*, 174, pp 23-40. (OPEN ACCESS) <https://dx.doi.org/10.1144/jgs2016-018> Recieved **Journal of the Geological Society's Early Career award**.
- (5) Lecomte I, Lavadera PL, Botter C, Anell I, Buckley SJ, **Eide, Christian Haug**, Grippa A, Palladino G, Mascolo V, Kjoberg S. 2016. 2(3)D convolution modelling of complex geological targets beyond 1D convolution. *First Break*, 43, pp 64-72. <http://bit.ly/2bZtpob>

(4) **Eide, Christian Haug**; Howell, John. A.; Martinius, Allard Willem; Buckley, Simon J; Oftedal, Bjørn-Terje; Henstra, Gijs A.. 2016. Facies model for a coarse-grained, tide-influenced delta: Gule Horn Formation (Early Jurassic), Jameson Land, Greenland. *Sedimentology*, 63, pp 1474-1506. (**OPEN ACCESS**).

<https://dx.doi.org/10.1111/sed.12270>

(3) **Eide, Christian Haug**; Howell, John. A.; Buckley, Simon J. 2015; Sedimentology and reservoir properties of tabular and erosive offshore transition deposits in wave-dominated, shallow-marine systems: Book Cliffs, USA.; *Petroleum Geoscience*, 21, 55-73. <http://dx.doi.org/10.1144/petgeo2014-015>

(2) **Eide, Christian Haug**; Howell, John. A.; Buckley, Simon J. 2014, Distribution of discontinuous mudstone beds within wave-dominated shallow-marine deposits: Star Point Sandstone and Blackhawk Formation, Eastern Utah, USA.; *AAPG Bulletin*, 98 (7), p. 1401-1429. <http://dx.doi.org/10.1306/01201413106>

(1) Libak, Audun.; **Eide, Christian Haug**; Mjelde, Rolf.; Keers, Henk.; Flüh, Ernst. R., 2012, From pull-apart basins to ultraslow spreading: Results from the western Barents Sea Margin; *Tectonophysics*, 514, p. 44-61 <http://dx.doi.org/10.1016/j.tecto.2011.09.020>

JOURNALS (IN REVIEW)

Ben Kilahms, Lauren Chedburn, Nick Schofield, Ingelin Løkling-Lunde, Hollie Romain, David Jolley and **Eide, Christian Haug**. *in review 2020*. The spatial distribution of Igneous Centres along the Norwegian Atlantic Margin (Møre and Vøring) and their relationship to magmatic plumbing systems. *Journal of the Geological Society*.

JOURNALS (ARTICLES READY FOR IMMEDIATE SUBMISSION)

Eide, Christian Haug; Howell, John & Schofield, Nick. *In prep 2021*: Transport of mafic magma through the crust and sedimentary basins: Jameson Land, East Greenland

Bradaric, Alma Dzozlic; Andersen, Trond; Lecomte, Isabelle; Løseth, Helge & Eide, Christian Haug. *in prep 2021*. Recognition and characterization of small-scale sand injectites in seismic data: Implications for reservoir development.

NON-PEER-REVIEWED SCIENTIFIC WRITING

(Technical reports, extended abstracts, theses, conference proceedings)

Eide, Christian Haug. 2018. Geologisk rapport etter steinsprang i Gate 3, 3, 30.06.2018. Report after a rockfall incident on a property in Måløy. *Report for Vågsøy Municipality*. 4 p.

Eide, Christian Haug. 2018. Vurdering av sannsyn for snøskred og steinsprang på Kjørnes, Sogndal Kommune, gbnr 1/208. Appeal to Sogndal Municipality for permission convert a boathouse to a private home in terrain previously assessed to be hazardous with regards to landslides. *Report for private client*. 4 p.

Eide, Christian Haug. 2017. Vurdering av sannsyn for snøskred og steinsprang på Venøy, gbnr 81/16 Seksjon 1. Appeal to Selje Municipality for permission to build a garage in terrain previously assessed to be hazardous. Appeal pending. *Report for private client*. 5 p.

Haflidason, H., **Eide, Christian. Haug.**, Gjerdingen, H.S., Monsen, S. & H. Henriksen, 2017. Marine Geological Cruise Report from Fjærlandsfjorden and Aurlandsfjorden. Report No. 100-05/17, Department of Earth Science, University of Bergen, Bergen, Norway, 30 pp.

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Eide, Christian Haug. 2016. Vurdering av sannsyn for snøskred og steinsprang i Ivahavet, gbnr 104/116 seksjon 1. Appeal to Vågsøy Municipality for permission to build a garage in terrain previously assessed to be hazardous. Appeal accepted 23.09.2016. *Report for private client.* 4 p.

Eide, Christian Haug, 2016. Reservoir architecture from outcrops: Understanding controls on seismic-to-core scale heterogeneities. *Extended abstract*, In: C. Berge et al (ed). *NGF Abstracts and Proceedings, No 2, 2016.* ISBN: 978-82-8347-017-8, 6 p. <http://bit.ly/2sv9vhm>

Buckley, Simon John; Naumann, Nicole; Kurz, Tobias Herbert; **Eide, Christian Haug** (eds). 2nd Virtual Geoscience Conference, Proceedings Volume. Bergen: Uni Research AS, 2016 (ISBN 978-82-8361-004-8). 212 p.

Eide, Christian Haug and Howell, John A. 2015. Interpretation and reservoir modelling of virtual outcrop models from the Gharif Formation West Face outcrop - Impact of large variation of fluvial style in a short stratigraphic interval on reservoir properties. *Project report for Petroleum Development Oman (PDO).* 36 p.

Eide, Christian Haug and Howell, John A. 2014: Reservoir properties and geometries of bayfill deposits - Virtual outcrop modelling of outcrops of the Neslen Formation in East Canyon, Utah as an analogue for the Åre Formation. *Project report for Statoil ASA.* 38 p.

Eide, Christian Haug. 2014: Shallow-marine facies and virtual outcrop geology: Intra-parasequence variability in ancient, shallow-marine environments. *Ph. D thesis. University of Bergen.* ISBN: 978-82-308-2908-0. 150 p.

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CONFERENCE PRESENTATIONS (FIRST AUTHOR AND SELECTED ONLY):

[no longer maintained]

Eide, Christian Haug; Schofield, N; Lecomte, I; Buckley, SJ; Howell: Seismic Interpretation of Sill-Complexes in Sedimentary Basins: Implications for the 'Sub-Sill Imaging Problem'. *33rd Nordic Geological Winter Meeting, Copenhagen, January 10-12, 2018.*

Eide, Christian Haug; Klausen, Tore Grane; Helland-Hansen, William; Suslova, Anna; Katkov, Denis: Source-to-sink study of the southwestern Barents Sea margin: Using ancient catchments to constrain reservoir-quality sandstone. *American Association of Petroleum Geologists, 3P Arctic, London, UK, 15-18 October, 2017*

Eide, Christian Haug; Klausen, Tore Grane; Helland-Hansen, William; Suslova, Anna; Katkov, Denis: Linking an Early Triassic delta to antecedent topography: source-to-sink study of the southwestern Barents Sea margin. *International Association of Sedimentologists, International meeting of sedimentology, Toulouse, France, 10-12 October, 2017*

Eide, Christian Haug; Hafliðason, Haflið: Fjord basin sediments as archives of extreme flood events in Western Norway. *Norwegian Geological Winter Meeting, Oslo, Norway 9-11 January, 2017.*

Flesland, Malin; Rotevatn, A.; Lecomte, I; **Eide, Christian Haug:** Understanding seismic imaging and controls on sill intrusions using lidar data from East Greenland. *Norwegian Geological Winter Meeting, Oslo, Norway 9-11 January, 2017.*

Eide, Christian Haug; Schofield, Nick; Jerram, Dougal A.; Howell, John A: Basin-scale architecture of deeply emplaced sill complexes. *Norwegian Geological Winter Meeting, Oslo, Norway 9-11 January, 2017.*

Eide, Christian Haug; Müller, Reidar; Helland-Hansen, William: Relating water-discharge and catchment area in modern and ancient catchments. *American Geophysical Union (AGU) Fall Meeting, San Francisco, USA, 12-16 December, 2016.*

Eide, Christian Haug: Reservoir architecture from outcrops: Understanding controls on seismic-to-core scale heterogeneities. *Norwegian Geological Association - Production Geoscience, Stavanger, Norway, 1-2 November, 2016. Invited speaker*

Eide, Christian Haug: Tana – a very old river: Linking an Early Triassic delta to antecedent topography. Onshore-Offshore relationships on the North Atlantic Margins. *Trondheim, Norway, 18-19 October, 2016.*

Eide, Christian Haug, Hafliðason, Hafliði: Den store flaumen i 2014 - Fjordsediment som arkiv for før-instrumentelle flaumar på Vestlandet. *Geofaredagen, Trondheim, Norway, 21 October, 2016.*

Eide, Christian Haug; Klausen, Tore Grane; Helland-Hansen, William; Suslova, Anna; Katkov, Denis: Source-to-Sink and sediment balance of the Triassic Barents Sea: Changes in paleogeography and reservoir properties in response to contrasting sediment supply. *Arctic Exploration - Understanding the Barents Sea potential. Tromsø, Norway, 31 May-2nd June, 2016. Invited speaker*

Eide, Christian Haug; Helland-Hansen, William: Mass-balance of an Induan (Early Triassic) Fennoscandian-derived source-to-sink system in the Barents Sea: Implications for early Triassic landscape and exhumation. *32nd Nordic Geological Winter Meeting, Helsinki, January 13-15, 2016*

Howell, John; **Eide, Christian Haug**; Hartley, Adrian: No Evidence for Sea Level Fall in the Cretaceous Strata of the Book Cliffs.

British Sedimentology Research Group AGM, Keele, UK, 19-22 December 2015

Eide, Christian Haug: Source-to-sink aspects of the lowermost Triassic deposits on the Finnmark Platform. 2nd Boreal Triassic Conference, Longyearbyen, Svalbard August 27-September 1, 2015

Eide, Christian Haug; Howell, John; Buckley, Simon: Relative sea-level-variations in Brent-type deposits: Intra-parasequence-scale shoreline trajectories in outcrop derived from helicopter-mounted lidar models from the Book Cliffs, Utah, USA. *Norwegian Geological Association Winter Conference, Stavanger, January 12-14, 2015*

Eide, Christian Haug; Klausen, Tore: Flooding in glacial valleys – results and implications of the 2014 flood in western Norway. *Norwegian Geological Association Winter Conference, Stavanger, January 12-14, 2015*

Eide, Christian Haug; Howell, John: Large variations in sedimentary architecture in a seasonal tropical, low-accommodation fluvial system: Results from the Permian Upper Gharif Formation, Oman. *British Sedimentological Research Group AGM, Nottingham, December 20-22, 2014*

Eide, Christian Haug; Howell, John; Buckley, Simon: Facies Model for an Ancient Tide-Dominated Delta: The Early Jurassic Gule Horn Formation, Jameson Land, Eastern Greenland. *American Association of Petroleum Geologists ACE, Houston, USA, April 6-9 2014*

Eide, Christian Haug; Howell, John; Buckley, Simon; Distribution and dimensions of reservoir elements and baffles in shallow-marine reservoirs. *American Association of Petroleum Geologists ACE, Pittsburgh, USA, 19-22 May 2013*

Eide, Christian Haug; Howell, John; Buckley, Simon; Dimension, distribution and controls of depositional elements in tide-dominated deposits: The Early Jurassic Neill Klintner-Group of East Greenland. *British Sedimentology Research Group AGM, Dublin, Ireland, 18-20 December 2012*

Eide, Christian Haug; Howell, John; Buckley, Simon; The role of inherited bathymetry on the architecture of wave-dominated deposits - Book Cliffs, Utah, USA. *British Sedimentology Research Group AGM, Southampton, UK, 18-21 December 2011*

Herrera, Paulo; Dahle, H.; Gray, W.; **Eide, Christian Haug**; The impact of aquifer cap rock on long-term CO₂ migration.

EGU General Assembly, Vienna, Austria, 3-8 April, 2011

OUTREACH

POPULAR SCIENCE WRITING

Eide, Christian Haug. «Mitt geofunn»: Bredda av Tanaelva i Masjok". *GEO*, 6, 2018. Norwegian geoscience magazine.

Eide, Christian Haug. Magmatiske intrusjoner på Øst-Grønland. *Geoforskning.no*, August 23rd. 2016. (Norwegian geoscience online magazine. English title: Igneous intrusions on East Greenland), <http://geoforskning.no/nyheter/grunnforskning/1279-magmatiske-intrusjoner-pa-ost-gronland>.

Eide, Christian Haug and Klausen, Tore G. Ei varsla ulukke - den store flommen på vestlandet i Oktober 2014. *Bergens Tidende*, April 19th. 2015. (Regional Norwegian newspaper. English title: A likely accident - the great flood in Western Norway in October 2014), <http://www.bt.no/nyheter/innsikt/Ei-varsla-ulykke-3341092.html>

Eide, Christian Haug, 2014; Veldige klimaendringar på Mars. *Naturen* 138, 150-157. (Norwegian popular science journal. English title: Violent climate changes on Mars). http://www.idunn.no/ts/natur/2014/04/veldige_klimaendringar_paa_mars, pp 150-157.

SCIENCE POPULARIZATION, OUTREACH, AND TEACHING

Realfag løyser viktige samfunnsproblem. 2x30 minutes on the importance of science for society for prospective UiB students. 8th February, 2020.

Jakta på storflommen: geologi og realfag løyser viktige problemer. 30 min lecture for pupils at Bergen Private Gymnas (high school). 25th November, 2019.

Field sketching for geologists – Why and how? 3 hour course in geological field sketching for UiB undergraduates at the request of the students (*fagutvalget*). 5th October 2017, 17th October 2018, 9th October 2019.

KORLEIS BLI GEOLOG I AKADEMIA: Og... kva gjer du på når du har blitt det?. 30 min lecture for UiB geoscience students at the 2019 Careers day. 8th April, 2019

Some tips on finishing your thesis and getting the most out of your PhD. 45 min lecture for UiB PhD students. *University of Bergen PhD seminar*. 7th June, 2018.

Kva skjer under ein vulkan? Resultat frå feltarbeid frå Grønland og seismikk frå Nord-atlanteren? (*What happens underneath a volcano? Results from field work in Greenland and seismic data from the north atlantic*). *Popular presentation about igneous intrusions, organized by the Norwegian Geological Society, Bergen Chapter*. 1st February 2018.

Jakta på storflaumen – Om flom på vestlandet. 1 hour lecture for students in Geoscience Didactics about western Norwegian floods. *University of Bergen*. 29th January, 2018.

Participated in developing recruitment campaign for new students to UiB Geoscience. Spring, 2016.

Jakta på storflaumen – Kva vil du bli? Feltgeolog?. 2x 1 hour seminars for junior high (age: 13-14) school students about how it is to be a field geologist. *University of Bergen*. 19th February, 2016.

Flaum på Vestlandet - Tankar om den store flaumen i 2014. One hour seminar for high school teachers in Western Norway. *University of Bergen Fagleg-pedagogisk dag 2016*. 5th February, 2016.

Flaumen i Flåm: Korleis kan geofag hjelpe oss til å forstå, forutsei og minimere konsekvensar av geofarar på Vestlandet. Half day classroom presentation and exercise as a continuing education-course for high-school geoscience teachers. (“*EVU i Geofag – Arbeid i geotopen*”). 21st October, 2015. [Same presentation also at *Geofagsamling by Skolelab.no*]

One day classroom and field course (Ulven, Os Kommune) as a continuing education-course for high-school geoscience teachers. (*"EVU i Geofag – Arbeid i geotopen"*). 15th September, 2015

Violent climate changes on Mars. *Norwegian Geological Association Bergen's annual Geology and Wine symposium (sensu stricto), Bergen, Norway, 27. November 2014*

Eide, Christian Haug and Klausen, Tore; The most severe flood in western Norway in at least 200 years. *Uni Research CIPR – Centre for Integrated Petroleum Research, Bergen, Norway, 14. November 2014*

Classroom teaching about sedimentology and value of field work, and field course leader in Ulven in Os Kommune, for high-school students participating in the International Earth Science Olympiad. *University of Bergen one day seminar, 2014-16*

Classroom teaching about geology and sedimentology for high-school students. *Bergen Private Gymnas. 17. October, 2013.*

Eide, Christian Haug; Feltarbeid på Østgrønland - Geologi, helikopter og rått kvalkjøt. *Norwegian Geological Association Bergen, Bergen, Norway, 27. September 2012*

ARTICLES ON THE UNIVERSITY OF BERGEN WEB PAGES:

2019: Article about the S2S-Future project: <https://www.uib.no/forskning/128022/skal-utdanne-geologar-til-%C3%A5-tenke-heilskap-og-berekraft>

2018: Article about the 2018 Utah course: <https://www.uib.no/en/rq/brs/118209/travel-letter-geo-course-utah>

PROFESSIONAL MEDIA APPEARANCES OF ME AND MY STUDENTS:

<https://expronews.com>, 26.01.2021 - Towards a better understanding of Triassic reservoir distribution in the Barents Sea: <https://expronews.com/exploration/towards-a-better-understanding-of-triassic-reservoir-distribution-in-the-barents-sea/>

www.geoforskning.no, 26.09.2019 - Kartlegger havbunnen for vindkraft (About project on offshore wind and geological conditions for foundations): <https://www.geoforskning.no/nyheter/grunnforskning/2116-kartlegger-havbunnen-for-vindkraft>

www.geoforskning.no, 26.03.2019 - Pris for kartlegging i Utah (About MSc Aasmund Løvestad winning the Earth Model Award: <https://www.geoforskning.no/9-nyheter/1999-pris-for-kartlegging-i-utah>

Fjordenes Tidende, 26.01.2018 – Får internasjonal geologipris for sin forskning på vulkaner (About the J. Geol. Soc. Early Career Award) - <http://www.fjt.no/nyheter/2018/01/27/Christian-har-f%C3%A5tt-internasjonalt-pris-15980289.ece>

www.geoforskning.no, 19.01.2018 – Hedret med gjev pris (About the J. Geol. Soc. Early Career Award) - <http://www.geoforskning.no/9-nyheter/1684-hedret-med-gjev-pris>

www.geologi.no, - 13.04.2016 – Treningsleir Geofag OL 2016 i Bergen (About the Norwegian Geoscience Olympiad training) – <http://www.geologi.no/geofag/geofag-ol/item/805-treningsleir-2016>

Os & Fusaposten, 23.08.2014 – OL-kvalik om Os-fjell (About the Norwegian Geoscience Olympiad training)

Fjordenes Tidende, 11.07.2014 – Opplever verden på jakt etter klimasvar (About my PhD project)

Bergensavisen, 13.09.2012 - Geologiens dag på Festplassen (About the Day of Geology in Bergen)