

Employment

Special Consultant

Section for Geobiology

København K

1 Mar 2022 → nu

Associate Professor

Section for Geobiology

København K

28 Feb 2022 → 29 Feb 2024

Assistant Professor

GeoGenetics

København K

1 Jan 2013 → 30 Sep 2019

External Lecturer

Geosciences and Natural Resource Management

København K

1 Nov 2012 → 31 Jan 2013

Postdoc

Ecology and Evolution

København Ø, Denmark

1 Apr 2009 → 31 Mar 2012

Associate Professor

Globe Administration

København K

1 Jan 2013 → 30 Sep 2021

Associate Professor CO10

Research

København Ø

5 Mar 2020 → 19 Mar 2022

Research outputs

Late Ordovician and early Silurian virgianid and stricklandioid brachiopods from North Greenland: implications for a warm-water faunal province

Jin, J., Rasmussen, Christian Mac Ørum, Sheehan, P. M. & Harper, D. A. T., 2024, In: Papers in Palaeontology. 10, 1, 42 p., e1544.

The Ordovician System in Greenland

Stouge, Svend, Rasmussen, Christian Mac Ørum & Harper, D. A. T., 2023, In: Geological Society, London, Special Publications. 533, 1, p. 27-64

The Ordovician of Scandinavia: a revised regional stage classification

Nielsen, Arne Thorshøj, Ahlberg, P., Ebbestad, J. O. R., Hammer, Ø., Harper, D. A. T., Lindskog, A., Rasmussen, Christian Mac Ørum & Stouge, Svend, 2023, In: Geological Society, London, Special Publications. 532, p. 267-315

Was the Late Ordovician mass extinction truly exceptional?

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Er livets mangfoldighed et produkt af Jordens varierende bane i rummet?

Rasmussen, Christian Mac Ørum, Rasmussen, Jan Audun Liljeroth & Thibault, Nicolas Rudolph, 15 May 2022, Videnskab.dk, ForskerZonen.

A Baltic Perspective on the Early to Early Late Ordovician $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ Records and Its Paleoenvironmental Significance

Edward, O., Korte, Christoph, Ullmann, C. V., Colmenar, J., Thibault, Nicolas Rudolph, Bagnoli, G., Stouge, Svend & Rasmussen, Christian Mac Ørum, Mar 2022, In: Paleoceanography and Paleoclimatology. 37, 3, 26 p., e2021PA004309.

A synopsis of Late Ordovician brachiopod diversity in the Anti-Atlas, Morocco

Colmenar Lallena, J., Villas, E. & Rasmussen, Christian Mac Ørum, 2022, *The Great Ordovician Biodiversification Event: Insights from the Tafilalt Biota, Morocco*. 1 ed. London: Geological Society of London, Vol. 485. p. 153-163 (Geological Society Special Publication; No. 1, Vol. 485).

Stable ocean redox during the main phase of the Great Ordovician Biodiversification Event

del Rey, Álvaro, Rasmussen, Christian Mac Ørum, Calner, M., Wu, R., Asael, D. & Dahl, Tais Wittchen, 2022, In: Communications Earth & Environment. 3, 7 p., 220.

Synchronizing rock clocks in the late Cambrian

Zhao, Zhengfu, Thibault, Nicolas Rudolph, Dahl, Tais Wittchen, Schovsbo, N. H., Sørensen, A. L., Rasmussen, Christian Mac Ørum & Nielsen, Arne Thorshøj, 2022, In: Nature Communications. 13, 11 p., 1990.

The Hirnantian Stage and the Hirnantian Isotope Carbon Excursion (HICE) in the Gotland (Sweden) subsurface

Gunnarsson, N., Calner, M., Wu, R., Rasmussen, Christian Mac Ørum, Lehnert, O., Erlström, M. & Dahlqvist, P., 2022, *Geological Society of Sweden 150 Year Anniversary Meeting: Abstract volume*. Weihed, J. B., Johansson, Å. & Rehnström, E. (eds.). Geologiska Föreningen, p. 320-321 (Geologiska Föreningen Specialpublikation, Vol. 1).

Warm-water *Tcherskidium* fauna (Brachiopoda) in the Late Ordovician Northern Hemisphere of Laurentia and peri-Laurentia

Jin, J., Blodgett, R. B., Harper, D. A. T. & Rasmussen, Christian Mac Ørum, 2022, In: Journal of Paleontology. 96, 6, p. 1461-1478 18 p.

Middle Ordovician astrochronology decouples asteroid breakup from glacially-induced biotic radiations

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A sequence of temporally separated element peaks; the fingerprint of a biogeochemical event initiated by sedimentary exhalative (SEDEX) brine expulsion

Arts, M., Cramer, B., Calner, M., Rasmussen, Christian Mac Ørum, Bancroft, A., Oborny, S., Hartke, E., Biebesheimer, E. & Silva, A. D., 4 Mar 2021

A temporal framework for the Mid-early Late Ordovician of Baltica

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Carbon isotope chemostratigraphy and sea-level history of the Hirnantian Stage (uppermost Ordovician) in the Oslo-Asker district, Norway

Calner, M., Bockelie, J. F., Rasmussen, Christian Mac Ørum, Calner, H., Lehnert, O. & Joachimski, M. M., 2021, In: Geological Magazine. 58, 11, p. 1977-2008 32 p.

Sulfidic anoxia in the oceans during the Late Ordovician mass extinctions – insights from molybdenum and uranium isotopic global redox proxies

Dahl, Tais Wittchen, Hammarlund, E. U., Rasmussen, Christian Mac Ørum, Bond, D. P. G. & Canfield, D. E., 2021, In: Earth-Science Reviews. 220, 14 p., 103748.

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Lindskog, A., Eriksson, M. E., Rasmussen, J. A., Dronov, A. & Rasmussen, Christian Mac Ørum, 2020, In: Estonian Journal of Earth Sciences. 69, 1, p. 37-61

Zooming in on the GOBE – 2020 Virtual Annual Meeting of IGCP 653: Abstracts and programme

Rasmussen, Christian Mac Ørum (ed.), Stigall, A. L. (ed.), Nielsen, Arne Thorshøj (ed.), Stouge, Svend (ed.) & Schovsbo, N. H. (ed.), 2020, Copenhagen: Geological Survey of Denmark and Greenland (GEUS). 54 p. (Danmarks og Grønlands Geologiske Undersøgelse Rapport; No. 21, Vol. 2020).

Correction to 'The evolutionary dynamics of the Early Palaeozoic marine biodiversity accumulation'

Kröger, B., Franeck, F. & Rasmussen, Christian Mac Ørum, 4 Dec 2019, In: Proceedings of the Royal Society B: Biological Sciences. 286, 1916, 3 p., 20192358.

The glacially induced Middle Ordovician rise of the Plectambonitoidea (Brachiopoda) and the phylogenetic placement of the Baltic genus Ukoa

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An imprint of astronomical climate forcing in the Baltoscandian Middle Ordovician 'orthoceratite limestone'?

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Building mountain biodiversity: geological and evolutionary processes

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Identifying the most surprising victims of mass extinction events: an example using Late Ordovician brachiopods

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Refined Ordovician timescale reveals no link between asteroid breakup and biodiversification

Lindskog, A., Canas Portela Costa, M. M., Rasmussen, Christian Mac Ørum, Connelly, James & Eriksson, M. E., 24 Jan 2017, In: Nature Communications. 8, 8 p., 14066.

Upper Cambrian to Upper Ordovician $\delta^{13}C$ and $\delta^{18}O$ stratigraphy of the western Baltic palaeobasin, Öland, Sweden: A closer look at climate during the onset of the Ordovician Radiation

Edward, O., Korte, Christoph, Ullmann, C. V., Colmenar, J., Nielsen, M., Stouge, Svend & Rasmussen, Christian Mac Ørum, 2017, p. A-389.

Et køligere klima kan skabe øget biodiversitet

Rasmussen, Christian Mac Ørum, 6 Jan 2016

Biogeographic and bathymetric determinants of brachiopod extinction and survival during the Late Ordovician mass extinction

Finnegan, S., Rasmussen, Christian Mac Ørum & Harper, D. A. T., 2016, In: Proceedings of the Royal Society B: Biological Sciences. 283, 1829, 9 p., 20160007.

Onset of main Phanerozoic marine radiation sparked by emerging Mid Ordovician icehouse

Rasmussen, Christian Mac Ørum, Ullmann, C. V., Jakobsen, K. G., Lindskog, A., Hansen, J., Hansen, T., Eriksson, M. E., Dronov, A., Frei, Robert, Korte, Christoph, Nielsen, Arne Thorshøj & Harper, D. A. T., 2016, In: Scientific Reports. 6, 9 p., 18884.

The onset of the 'Ordovician Plankton Revolution' in the late Cambrian

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Towards a calibrated astronomical timescale for the Mid Ordovician

Rasmussen, Christian Mac Ørum, Thibault, Nicolas Rudolph, Stouge, Svend, Siggaard-Andersen, M. L., Costa, M., Schovsbo, N., Calner, M., Dahlqvist, P., Korte, Christoph, Frei, Robert, Storey, M., Connelly, J., Pedersen, G. K., Rasmussen, B. W., Rasmussen, J. A. & Nielsen, A. T., 2016, p. 2812 .

Subaerial speleothems and deep karst in central Sweden linked to Hirnantian glaciations

Kröger, B., Ebbestad, J. O. R., Lehnert, O., Ullmann, C. V., Korte, Christoph, Frei, Robert & Rasmussen, Christian Mac Ørum, 2015, In: Journal of the Geological Society - London. 172, 3, p. 349-356 8 p.

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Integrating bed-by-bed palaeobiological and geochemical proxies through the onset of the Great Ordovician Biodiversification Event on Baltica

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Late Ordovician brachiopods from eastern North Greenland: equatorial offshore migration of the Red River fauna

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Precisely locating the Ordovician equator in Laurentia

Jin, J., Harper, D. A. T., Cocks, L. R. M., McCausland, P. J. A., Rasmussen, Christian Mac Ørum & Sheehan, P. M., Feb 2013, In: *Geology*. 41, 2, p. 107-110 4 p.

Biodiversity, biogeography and phylogeography of Ordovician rhynchonelliform brachiopods

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Late Ordovician brachiopods from West-central Alaska: systematics, ecology and palaeobiogeography

Rasmussen, Christian Mac Ørum, Harper, D. A. T. & Blodgett, R. B., 2012, Wiley-Blackwell. 103 p. (Fossils and Strata, Vol. 58).

Transgressive-regressive events and facies through the Upper Ordovician– Lower Silurian of Peary Land, North Greenland

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Rasmussen, Christian Mac Ørum, May 2011, *Ordovician of the World*. Gutiérrez-Marco, J. C., Rábano, I. & García-Bellido, D. (eds.). Instituto Geológico y Minero de España, p. 447-455 9 p. (Publicaciones del Instituto Geológico y Minero de España. Serie: Cuadernos del Museo Geominero; No. 14).

Did the amalgamation of continents drive the end Ordovician mass extinctions?

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Interrogation of distributional data for the End Ordovician crisis interval: *where* did disaster strike?

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Tectonics, islands and island hopping in the Early Palaeozoic benthos

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The Otta brachiopod and trilobite fauna: palaeogeography of Early Palaeozoic terranes and biotas across Baltoscandia

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Da Nordpolen lå et sted i troperne

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Survival of the thickest: Late Ordovician - Early Silurian brachiopods from Peary Land, North Greenland

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Harper, D. A. T., Rasmussen, Jan Audun Liljeroth, Rasmussen, Christian Mac Ørum, Stemmerik, L. & Pineda, G. A. H., 2007, In: *Geoviden*. 3, p. 12-15 4 p.

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The Ordovician – Silurian pentameroid seas of North Greenland: tropical incumbents rule the waves

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The Otta brachiopod fauna: Palaeogeography of early Palaeozoic terranes and biotas across Baltoscandia.

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Early Mid Ordovician (Kundan) brachiopods from the Eastern Baltic: biostratigraphy, palaeogeography and palaeoecology

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Activities

Hvad laver en geolog? -eller rettere: hvad kan en geolog forske i?

Rasmussen, Christian Mac Ørum (Lecturer)

26 Mar 2010

Hvad kan døde dyr fortælle om klimaet?: -eksempler fra Jordens oldtid

Rasmussen, Christian Mac Ørum (Lecturer)

26 Feb 2010

En Palæozoisk masseuddøen i Nordgrønland

Rasmussen, Christian Mac Ørum (Lecturer)

23 Nov 2007

Nordgrønlands kortlægning – fra suverænitets spørgsmål til suverænitets spørgsmål

Rasmussen, Christian Mac Ørum (Lecturer)

30 Jan 2007

Brachiopoder: opbygning, taksonomi og anvendelsesmuligheder

Rasmussen, Christian Mac Ørum (Lecturer)

20 Nov 2006