

CURRICULUM VITAE

Skúli Skúlason, Ph.D.

- 1986–1990: Ph.D. Department of Zoology, University of Guelph, Canada
1984–1986: M.Sc. Department of Zoology, University of Guelph, Canada
1981–1983: 4th yr. Dipl. Department of Biology, University of Iceland
1978–1981: B.S. Department of Biology, University of Iceland
- 2007 –current **Professor of evolution and aquatic biology in the Department of Aquaculture and Fish biology, Hólar University College (since 2019: Hólar University), Iceland, and the Icelandic Museum of Natural History**
- 1999–2012 **Schoolmaster and rector (principal/president) of Hólar College, later Hólar University College**
- 1990–1999 **Faculty member and Head of Department of Aquaculture and Fish biology at Hólar College**
- 1991 **Post-doctor position at Museum of Vertebrate Zoology, Department of Integrative Biology, University of California at Berkeley, U.S.A.** Research on embryonic growth and morphological development of Arctic charr morphs

Awards

In 1997 elected fellow of The Science Academy of Iceland.

In 1991 Award from the North-American science association *Sigma Xi* for the best doctoral thesis defended at the University of Guelph during the year 1990.

Administrative, management and development work

Work as rector of Hólar University College involved diverse leadership and management responsibilities and tasks, internal and external to the university.

Among current responsibilities: Charman of the Ethics Committee of the University of Iceland. Head of the Research Division and the Ethics Committee of Hólar University. A member of the Quality Council, of the Quality Board for Higher Education in Iceland, and of the Quality Board's Research Evaluation Advisory Committee (REAC). A member of a governmental committee regarding the use of genetically modified organisms.

Have lead and participated in a number of governmental and institutional committees, related to e.g. resource use, environmental assessments and job selection.

Teaching, supervision and examinations

Have organized and taught a number of courses in organized university programs, e.g. in Freshwater Ecology, Fish Biology, Aquaculture, Ecology, Evolution, Environmental Science and Philosophy, Philosophy of Science, Tourism studies and Introduction to University Studies. Have also organized and taught in international field courses and given lectures in various courses.

Since 1992 have supervised or participated in supervision of 30 graduate students, at University of Iceland, University of Guelph Canada; University of Glasgow Scotland; Oregon State University USA; and University of Washington USA.

Have been examiner/opponent in doctoral defenses in Sweden (3), Scotland (2), Finland (1), Canada (2) and Iceland (2); and an examiner of a number of master's projects.

Research work

Research work has primarily been concerned with the ecology, evolution, conservation and management of biological diversity, with focus on Icelandic and Northern freshwater fishes, mainly Arctic charr (*Salvelinus alpinus*).

Google scholar profile: <https://scholar.google.is/citations?user=dtVsa6IAAAAJ&hl=en>

Have coordinated a number of national and international research projects, and participated in a number of national and international research projects and collaborative networks.

Have given 90+ talks, including co-authored, at international scientific conferences, and of these 13 were invited or keynote presentations; presented a number of posters at international scientific conferences; and given 30 invited lectures at international universities and research institutions.

Have published 77 peer-reviewed papers in international scientific journals and as refereed book chapters.

Refereed publications in international scientific journals and books – since 2013

Pilakouta, Natalie, Shaun S. Killen, Bjarni K. Kristjánsson, **Skúli Skúlason**, Jan Lindström, Neil B. Metcalfe og Kevin J. Parsons 2020. Multigenerational exposure to elevated temperatures leads to a reduction in standard metabolic rate in the wild. *Functional Ecology* (in press).
doi.org/10.1111/1365-2435.13538

Paccard, A, D.Hanson, Y.E. Stuart, F.A. von Hippel, M. Kalbe, T. Klepaker, **S. Skúlason**, B. K. Kristjánsson, D.I. Bolnick, A.P. Hendry, and R.D.H. Barrett 2020. Repeatability of adaptive radiation

depends on spatial scale: regional versus global replicates of stickleback in lake versus stream habitats. *Journal of Heredity* (accepted for publication).

Skúlason, S., K. J. Parsons, R. Svanbäck, K. Räsänen, M. M. Ferguson, C. E. Adams, P-A. Amundsen, P. Bartels, C. W. Bean, J. Boughman, G. Englund, J. Guðbrandsson, O. E. Hooker, A. G. Hudson, K. K. Kahilainen, R. Knudsen, B. K. Kristjánsson, C.A-L. Leblanc, Z Jónsson, G. Öhlund, C. Smith and S. S. Snorrason 2019. A way forward with eco evo devo: an extended theory of resource polymorphism with postglacial fishes as model systems. *Biological Reviews* 94: 1786 – 1808, doi: 0.1111/brv.12534

Ferguson, A., C.E. Adams, M. Jóhannsson, F. Kelly, R. A. King, P. Maitland, I. McCarthy, M. O’Grady, P. A. Prodöhl, **S. Skúlason**, E. Verspoor and I. J. Winfield 2019. Trout and Char of the North Atlantic Isles. Chapter 10 in: J. L. Kershner, J. E. Williams, R. E. Gresswell, and J. Lóbon-Cerviá (eds.), *Trout and Char of the World*. American Fisheries Society.

Leblanc C.A., K. Horri, **S. Skúlason**, and D. Benhaim 2019. Subtle temperature increase can interact with individual size and social context in shaping phenotypic traits of a coldwater fish. *PLoS ONE* 14 (3): e0213061. doi.org/10.1371/journal.pone.0213061

Beck S.V., K. Räsänen, E.P. Ahi, B. K. Kristjánsson, **S. Skúlason**, Z.O. Jónsson and C.A. Leblanc 2019. Gene expression in the phenotypically plastic Arctic charr (*Salvelinus alpinus*): A focus on growth and ossification at early stages of development. *Evolution & Development* 21: 16–30. DOI: 10.1111/ede.12275

Franklin O.D., **S. Skúlason**, M.B. Morrissey and M.M. Ferguson 2018. Natural selection for body shape in resource polymorphism Icelandic Arctic charr. *Journal of Evolutionary Biology* 31: 1498-1512. <https://onlinelibrary.wiley.com/doi/full/10.1111/jeb.13346>

Woods P.J., **S. Skúlason**, S. S. Snorrason, and T. P. Quinn 2018. Eco-evolutionary feedbacks in the functional role of a polymorphic colonizer: Arctic charr in subarctic lakes of Alaska and Iceland. *Evolutionary Ecology Research* 19: 149–169.

Kristjánsson B.K., C. A.-L. Leblanc, **S. Skúlason**, S. S. Snorrason and D. L. G. Noakes 2018. Phenotypic plasticity in the morphology of small benthic Icelandic Arctic charr (*Salvelinus alpinus*). *Ecology of Freshwater Fish*. 27: 636–645. DOI: 10.1111/eff.12380

Lucek K., B. K. Kristjánsson, **S. Skúlason** and O. Seehausen 2016. Ecosystem size matters: the dimensionality of intralacustrine diversification in Icelandic stickleback is predicted by lake size. *Ecology and Evolution* 6 (15): 5256– 5272. doi: 10.1002/ece3.2239

Leblanc, C. A., B. K. Kristjánsson, and **S. Skúlason** 2016. The importance of egg size and egg energy density for early size patterns and performance of Arctic charr *Salvelinus alpinus*. *Aquaculture Research* 47: 1100–1111. doi:10.1111/are.12566

Thóroddur Bjarnason, Ingi Rúnar Edvarðsson, Ingólfur Arnarson, **Skúli Skúlason**, Kolbrún Ósk Baldursdóttir 2016. Svæðisbundin áhrif íslenskra háskóla (Regional effects of Icelandic universities). *Tímarit um uppeldi og menntun* 25: 265-287. <https://ojs.hi.is/tuuom/article/view/2439> (in Icelandic).

Skúlason, S. and B.K. Kristjánsson 2015. The Origin and Significance of Reproductive Isolation for Processes of Divergence. Pp. 3-25 in: T. Vladic and E. Petersson (eds.), *Evolutionary Biology of the Atlantic Salmon*. CRC Press Taylor & Frances Group. U.S.A.

Küttner E., K.J. Parsons, A. Easton, **S. Skúlason**, R. G. Danzmann and M. M. Ferguson 2014. Hidden genetic variation evolves with ecological specialization: the genetic basis of plasticity in Arctic charr ecomorphs. *Evolution and Development* 16: 247–257

Lucek, K., A. Sivasundar, B.K. Kristjánsson, **S. Skúlason**, O. Seehausen 2014. Quick divergence but slow convergence during parallel ecotype evolution: time, historical contingency and parallelism in lake and stream stickleback pairs of variable age. *J. Evol. Biol.* 27: 1878–1892. doi: 10.1111/jeb.12439.

Kristjánsson B. K., S. S. Snorrason, C. Leblanc, D. L. G. Noakes and **S. Skúlason** 2014. Lífið á sjaðrinum: Dvergbleikja (*Salvelinus alpinus*) í íslenskum lindarbúsvæðum. *Náttúrufræðingurinn* 84 (3–4): 123–131 (in Icelandic with English abstract).

Karvonen A., B. K. Kristjánsson, **S. Skúlason**, M. Lanki, C. Rellstab and J. Jokela 2013. Water temperature, not fish morph, determines parasite infections of sympatric Icelandic three-spine sticklebacks (*Gasterosteus aculeatus*). *Ecology and Evolution*. 3(6): 1507–1517 doi: 10.1002/ece3.568

Küttner, E., K. Parsons, B. Robinson, **S. Skúlason**, R. Danzmann, M. M. Ferguson 2013. Population, family and environmental effects on craniofacial morphology in Icelandic Arctic charr (*Salvelinus alpinus*). *Biological Journal of the Linnean Society* 108: 702–714.

Woods, P.J., **S. Skúlason**, S. S. Snorrason, B. K. Kristjánsson, F. Ingimarsson and H.J. Malmquist, 2013. Variability in the functional role of Arctic charr *Salvelinus alpinus* as it relates to lake ecosystem characteristics. *Environmental Biology of Fishes* 96: 1361–1376. DOI 10.1007/s10641-013-0114-x.

Keynote presentations at international conferences since 2014

Skúli Skúlason. How Reproductive Ecology and Ontogeny Interactively Shape Phenotypic Diversity and Resource Polymorphism of Charrs. Invited Keynote lecture at the *9th International Charr Symposium* 18 - 21 June 2018. Duluth, Minnesota, USA.

Skúli Skúlason. Diversity of charr in the context of eco-evo-devo. Invited Keynote lecture at *the 8th International Charr Symposium*, University of Tromsø, Norway 14-18 June 2015.

Skúli Skúlason. Towards eco evo devo synergy: Northern freshwater fishes as model systems. Invited Keynote lecture at the *Nordic Oikos Congress*, Natural History Museum in Stockholm 3-6 February 2014.