

**Name :** Gunnar Stefansson  
**Date of Birth:** 9. August, 1955

## Occupation and degrees

**Current position:** Professor at the Mathematics Department of the University of Iceland and director of the University Statistics Center.

**R&D projects:** Web-assisted education; Statistical models of marine ecosystems; Marine surveys using autonomous underwater vehicles; statistics in molecular biology. Reviewer for: J. American Statistical Association, Computers&Education, J. of Educational Measurements, ICES J. Marine Science, Fisheries Research, Biometrical Journal, Ecol. Letters.

**Education:** Ph.D. in Statistics from the Department of Statistics of the Ohio State University, 1983. Thesis title: Multiple comparisons under order restrictions; M.S. in Statistics from the Department of Statistics of the Ohio State University, 1981; B.S. in Applied Mathematics from the University of Iceland, 1978.

### **Grants and awards, as coordinator or primary recipient, from 1999:**

- EU MareFrame (FP7 613571, Scientific Manager): Large (6M€) project with 28 partner institutes. 2014-
- Univ. Iceland (sole applicant). Grants to develop tutor-web system for on-line teaching, storage of material and evaluation. 2003, 2005, 2011-2013.
- Univ. Iceland (sole applicant): Grants for PhD students. 2008, 2009.
- Educational material development fund and consortium on inter-university cooperation: Developing tutor-web material, 2011, 2013.
- Equipment grants (AUV): Rannís (Icelandic Centre for Research) 2008, +UI matching funds 2008-2013.
- Marine Res. Inst. (appl. with student): Grant for PhD student. 2009.
- Univ. Iceland (sole applicant) and AVS: Grants to develop methodology to assess scallop abundance using AUV technology. 2007.
- EU (coordinator): Large (500 Mkr) 4-year project (QLK5-CT1999-01609) with 8 institutes in 6 countries. 1999-2004.
- Rannís grant for migration models. 2000-2003.

### **PhD students/committees (MSc students are not listed)**

- Andrea Rau. Co-advisor, 2014-
- Chrispine Nyamweya. Advisor 2014-
- Erla Sturludóttir. Advisor 2011-
- Anna Helga Jónsdóttir. Advisor 2009-
- Bjarki Þór Elvarsson. Advisor 2009-2014
- Warsha Singh. Advisor 2009-
- Sigrún Helga Lund. Advisor 2006-2014
- Chamari Dissanyake. Advisor. Graduated 2011.
- Valerio Bartolino. Advisor. Graduated 2009.

## List of publications (see also <http://bit.ly/1htAUCP> for citations):

[Codes: ISI=ISI-listed, PRJ=Other peer-reviewed journal publication, CP=Conference proceedings, IB=In book, TR=Technical report]

### *In progress*

[ISI] Elvarsson, B. Th., Sigurdardottir, A. J., Olafsdottir, E. I., Taylor, L. A. and Stefansson, G. 2014. R-Gadget: A marine multispecies simulator. J. of Statistical Software. <http://www.jstatsoft.org/> (in prep)

[ISI] Einarsson, G. Runarsson, T. P. and Stefansson, G. 2014. On the Hunt. Competitive Coevolution as a Metaheuristic (in prep)

### *Submitted*

[PRJ/CP/TR] Jonsdottir, A. H. and Stefansson, G. 2014. Design and analysis of experiments linking on-line drilling methods to improvements in knowledge. Presented at JSM 2013. See <http://arxiv.org/abs/1310.8236> (submitted to PLOS One)

[ISI] Desjardins, C. D., Jonsdottir, A. H. and Stefansson, G. 2014. Enhanced Learning Through an Open-Access Content and Drill System (submitted to JCAL).

[ISI] Lund, S. H., Sigurdsson, A. Gudjonsson, S. A., Gudmundsson, J., Gudbjartsson, D. F., Rafnar, T., Stefansson, K., Stefansson, G. 2014. Estimating robustness of the tileShuffle method with repeated probes. (submitted)

[ISI] Andonegi, E., Quincoces, I., Taylor, L. A., Arregi, I., Ganzedo, U. and Stefansson, G. 2013. First implementation of a GADGET model for the analysis of the Bay of Biscay hake population. (submitted).

[CP] Lentin, J., Jonsdottir, A.H., Stern, D., Mokua V. and Stefansson, G. 2014. A mobile web for enhancing statistics and mathematics education. Paper accepted for presentation at icots9 (to be submitted to ISI journal).

### *In press/accepted*

[CP] Jonsdottir, A. H. and Stefansson, G. 2014. Using an Online Learning Environment to Teach an Undergraduate Statistics Course: the tutor-web. Presented at EDULEARN13, Barcelona, 1-3 July 2013. See <http://arxiv.org/abs/1407.0308>.

[ISI] Singh W., Ornlfsdottir E. B. and Stefansson, G. 2014. A small-scale comparison of Iceland scallop size distributions obtained from a camera based autonomous underwater vehicle and dredge survey. PLOS ONE (accepted)

[PRJ/TR] Jonsdottir, A. H., Stefansson, G. 2014. From evaluation to learning: Some aspects of designing a cyber-university. Computers&Education 78, 344-351. (Earlier presented at Edulearn11)

[ISI] Singh, W., Thordarson, G., Haputhantri, S. and Stefansson, G. 2014. A data sampling strategy for length based stock assessments - Sample size vs. number of samples. Communications in Statistics - Simulation and Computation (in press).

[ISI] Lund, S. H., Sigurdsson, A. Gudjonsson, S. A., Gudmundsson, J., Gudbjartsson, D. F., Rafnar, T., Stefansson, K., Stefansson, G. 2014. The effect of SNPs on expression levels in Nimblegen RNA expression microarrays. International Journal of Data Mining and Bioinformatics (in press).

- [ISI] Lund, S. H., Sigurdsson, A. Gudjonsson, S. A., Gudmundsson, J., Gudbjartsson, D. F., Rafnar, T., Stefansson, K., Stefansson, G. 2014. A method for detecting long non-coding RNAs with tiled RNA expression microarrays. PlosOne. (In press).
- [ISI] Jonsdottir, A. H., Jakobsdottir, A. and Stefansson, G. 2014. Development and use of an adaptive learning environment to research on-line study behaviour. Journal of Educational Technology & Society (In press).

### *Published*

- [ISI] Sturludottir, E., Gunnlaugsdottir, H., Jorundsdottir, H. O., Magnusdottir, E. V., Olafsdottir, K. and Stefansson, G. 2014. Temporal trends of contaminants in cod from Icelandic waters. Science of the Total Environment. 476: 181-188.
- [ISI] Elvarsson, B. Th. Taylor, L., Trenkel, V., Kupca, V. and Stefansson, G. 2014. A bootstrap method for estimating bias and variance in statistical fisheries modelling frameworks using highly disparate data sets. Afr. J. Mar. Sci. 36(1): 99-110.
- [PRJ] Jonsdottir, A. H., Hreinsdottir, F., Geirdottir, G., Moller, R. G. and Stefansson, G. 2013. Könnunarpróf nýnema í stærðfræði við Háskóla Íslands. Niðurstöður og forspárgildi. Timarit um menntarannsóknir 10: 11-28. (in Icelandic; printed in February, 2014).
- [ISI] Sturludottir, E., Gunnlaugsdottir, H., Jorundsdottir, H. O., Magnusdottir, E. V., Olafsdottir, K. and Stefansson, G. 2013. Spatial and temporal trends of contaminants in mussel sampled around the Icelandic coastline. Science of the Total Environment, 454:500–509.
- [ISI] Singh, W., Ornlófsdóttir, E. B. and Stefansson, G. 2013. A Camera-Based Autonomous Underwater Vehicle Sampling Approach to Quantify Scallop Abundance. J. Shellfish Res. 32(2):725-732.
- [CP] Singh, W., Ornlófsdóttir, E., and Stefansson, G. A small-scale comparison of Iceland scallop size distributions obtained from a camera based autonomous underwater vehicle and dredge survey. ICES CM 2012/ F:13 (Also presented at: ICES ASC 2012. Proceedings of the ICES Annual Science Conference, 17-21 September, 2012, Bergen, Norway.)
- [ISI] Dissanayake, D.C.T. and Stefansson, G. 2012. Habitat preference of sea cucumbers: *Holothuria atra* and *Holothuria edulis* in the coastal waters of Sri Lanka. Journal of the Marine Biological Association of the United Kingdom, 92(3), 581–590 (doi:10.1017/S0025315411000051).
- [ISI] Dissanayake, D. C. T. and Stefansson, G. 2012. Present status of the commercial sea cucumber fishery off the northwest and east coasts of Sri Lanka. Journal of the Marine Biological Association of the United Kingdom, 92(4), 831–841.
- [CP/TR] Jonsdottir, A.H. and Stefansson, G. 2011. Enhanced Learning with Web-Assisted Education. In *JSM Proceedings*, Statistical Education Section. Alexandria, VA: American Statistical Association, pp. 3964 -3795. See Arxiv:1310.4667.
- [ISI] De Croos, M.D.S.T. and Stefansson, G., 2011. A case study of sampling strategies for estimating the length composition of the commercial catches: the Sri Lankan shrimp trawl fishery. CRUSTACEANA -- International Journal of Crustacean Research. 84(12-13):1581-1591.
- [PRJ] Stefansson, G. and Sigurdardottir, A. J. 2011. Web-assisted education: From evaluation to learning. J. Instr. Psych. 38(1): 47-60.

- [ISI] Andonegi, E., Fernandes, J. A., Quincoces, I., Irigoien, X., Uriarte, A., Perez, A., Howell, D. and Stefansson, G. 2011. The potential use of a Gadget model to predict stock responses to climate change in combination with Bayesian Networks: the case of the Bay of Biscay anchovy. *ICES J. Mar. Sci.* 68: 1257-1269. doi: 10.1093/icesjms/fsr087
- [ISI] Bartolino, V., Colloca, F., Taylor, L., Stefansson, G. 2011. First implementation of a Gadget model for the analysis of hake in the Mediterranean. *Fisheries Research*, 107, 75-83. doi:10.1016/j.fishres.2010.10.010.
- [ISI] Singh, W., Hjorleifsson, E. and Stefansson, G. 2011. Robustness of fish assemblages derived from three hierarchical agglomerative clustering algorithms performed on Icelandic groundfish survey data. *ICES J. Mar. Sci.* 68(1), 189-200.
- [PRJ] Constantinescu, D. and Stefansson, G. 2010. On building a web-based university. *US-China Educational Review*, 7(12), 89-97.
- [ISI] Dissanayake, D. C. T. and Stefansson, G. 2010. Reproductive biology of commercial sea cucumber; *Holothuria atra* [Holothuroidea: Aspidochirotida] in the Northwestern coastal waters of Sri Lanka. *Invertebrate Reproduction & Development*, 54(2): 65-76.
- [ISI] Dissanayake, D. C. T. and Stefansson, G. 2010. Abundance and distribution of commercial sea cucumber species in the coastal waters of Sri Lanka. *Aquat. Living Resour.* 23(3), 303-313.
- [IB] Stefansson, G. 2010. Statistics in marine research. *In International Encyclopedia of Statistical Sciences*. Lovric, Miodrag (Ed.), Approx. 1500 p., ISBN: 978-3-642-04897-5 (See <http://www.springer.com/statistics/book/978-3-642-04897-5>).
- [TR] Calian, V., Stefansson, G., Folkow, L.P. and Blix, A.S. 2009. Estimating migration proportions from discretely observed continuous diffusion processes. Arxiv: 0909.1527.
- [ISI/TR] Lund, S. H., Sigurdsson, A. Gudjonsson, S. A., Gudmundsson, J., Gudbjartsson, D. F., Rafnar, T., Stefansson, K., Stefansson, G. 2014. Detectability on RNA expression microarrays. RH-16-2010.
- [PRJ] Sigurdardottir, A. J. and Stefansson, G. 2009. Greining á framförum nemenda innan vefkerfis sem býður upp á gagnvirk krossapróf (*in Icelandic*). *Timarit um raunvisindi og stærðfræði*, 6 (1): 23-32.
- [CP] Stefansson, G. and Sigurdardottir, A. J. 2009. Interactive quizzes for continuous learning and evaluation. *In Joint Statistical Meetings (JSM) proceedings, Section on Statistical Education*. Alexandria, VA: American Statistical Association. 4577-4591.
- [TR] Olafsdottir, E. I., Hreinsdottir, F., Stefansson, G. and Oskarsdottir, M. 2009. Mathematics electives by gender in a secondary school in Iceland (In Icelandic: Námsval stúlkna með tilliti til stærðfræði í Menntaskólanum við Hamrahlíð). Science Institute technical report RH-12-2009. Available at <http://www.raunvis.hi.is/reports/2009/RH-12-2009.pdf>
- [ISI/CP] Lund, S. H., Gudbjartsson, D. F., Gudmundsson, J., Sigurdsson, A., Gudjonsson, S. A., Rafnar, Th. and Stefansson, G. 2009. Identification and classification of expressed RNA probes in microarray experiments. *In Joint Statistical Meetings (JSM) proceedings, Biometrics Section*. Alexandria, VA: American Statistical Association. 4628-4641.
- [CP] Stefansson, G. and Constantinescu, D. 2009. The tutor-web, a step towards building an active web based university. *Proceedings of the 5<sup>th</sup> International Scientific Conference "eLearning and Software for Education"*, pp 273-280. Edited by the Carol I National Defence University Publishing House (ISSN 2066-026X).

- [ISI] Hannesson, S., Jakobsdottir, A., Begley, J., Taylor, L.A. and Stefansson, G. 2008. On the use of tagging data in statistical multispecies multi-area models of marine populations. *ICES J. Mar. Sci.* 65(9), 1762-1772.
- [ISI] Bartolino, V., Ottavi, A., Colloca, F., Ardizzone, G. D. and Stefansson, G. 2008. Bathymetric preferences in hake juveniles (*Merluccius merluccius*). *ICES J. Mar. Sci.* 65 (6): 963-969.
- [ISI] Taylor, L., Begley, J., Kupca, V. and Stefansson, G. 2007. A simple implementation of the statistical modelling framework Gadget for cod in Icelandic waters. *Afr. J. Mar. Sci.* 29(2): 223-245.
- [ISI] Stefansson, E., Stefansson, G., Sigurdsson, S. Th. & Briem, E. 2006. Decimals in data values. *Acta Ophthalmologica Scandinavica* 84 (4), 449-450.
- [ISI] Stefansson, G. and Rosenberg, A. A. 2006. Designing marine protected areas for migrating fish stocks. *J. Fish. Biol.* 69 (Supplement C), 66–78 doi:10.1111/j.1095-8649.2006.01276.x
- [ISI] Stefansson, G. and Rosenberg, A. A. 2005. Combining control measures for managing fisheries under uncertainty: quotas, effort limitation and protected areas. *Phil. Trans. R. Soc. B.* 360: 133-146.
- [ISI] Cooper, A., Rosenberg, A. A., Mangel, M. and Stefansson, G. 2004. Examining the importance of consistency in multi-vessel trawl survey design based on the U.S. west coast groundfish bottom trawl survey. *Fisheries Research* 70, 239-250.
- [ISI] Brynjarsdottir, J. and Stefansson, G. 2004. Analysis of cod catch data from Icelandic groundfish surveys using generalized linear models. *Fisheries Research* 70(21), 195-208.
- [ISI] Hilborn R., Stokes K., Maguire, J.-J. Smith, T., Botsford, L. W., Mangel M., Orensanz J., Parma A., Rice J., Bell J., Cochran, K. L., Garcia S., Hall, S. J., Kirkwood, G. P., Sainsbury K., Stefansson G., and Walters C. 2004. When Can Marine Protected Areas Improve Fisheries Management? *Ocean & Coastal Management.* 47 (3-4): 197-205
- [ISI] Hrafnkelsson, B. and Stefansson, G. 2004. A model for categorical length data from groundfish surveys. *Can. J. Fish. Aquat. Sci.* 61: 1135-1142.
- [ISI] Stefansson, G. 2004. The tutor-web: An educational system for class-room presentation, evaluation and self-study. *Computers&Education*, 43 (4): 315-343.
- [CP] Benediktsson, O., Gunnarsson, J., Hreinsson, E. B., Jakobsson, J., Kaldalons, Oe., Kjartansson, O., Rosmundsson, O., Sigvaldason, H., Stefansson, G., and Zophoniasson, J. 2004. Computerisation of the Icelandic state and municipalities from 1964 to 1985. *In History of Nordic Computing. IFIP WG9.7 HiNC1 conference, 2003, Trondheim, Norway. Series: IFIP International Federation for Information Processing*, Vol. 174 Bubenko, Janis; Impagliazzo, John; Solvberg, Arne (Eds.) XX, 488 p., 2005, XX, 488 p., Hardcover ISBN: 0-387-24167-1
- [CP] Gunnar Stefansson and Lorna Taylor (2004). Verifying consistency when fitting complex statistical models to multiple data sets with applications to fish population dynamics and fisheries. *ICES CM 2004/FF:26*
- [CP] Lorna Taylor and Gunnar Stefansson (2004). Gadget models of cod-capelin-shrimp interactions in Icelandic waters. *ICES CM 2004/FF:29*.
- [PRJ] Stefansson, G. 2003. Gagnvirkur kennsluvefur (in Icelandic). *Timarit um raunvísindi og stærðfræði*, 2: 115-116.
- [PRJ] Stefansson, G. and Hrafnkelsson, B, 2003. Mat á lengdardreifingum (in Icelandic). *Timarit um raunvísindi og stærðfræði*, 2: 45-55.
- [PRJ] Stefansson, G. 2003. Issues in multispecies models. *Natural Resource Modeling*, 16(4): 415-437.

- [CP] Stefansson, G. 2003. Multi-species and ecosystem models in a management context. *In* Sinclair and Valdimarsson. FAO Conference Proceedings on Fisheries in the Ecosystem.
- [PRJ] Patterson, K., Cook, R., Darby, C., Gavaris, S., Kell, L., Lewy, P., Mesnil, B., Punt, A., Restrepo, V., Skagen, D. W. and Stefansson, G. 2001. Estimating uncertainty in fish stock assessment and forecasting. *Fish&fisheries*, 2, 125-157.
- [ISI] Marteinsdottir, G., Gudmundsdottir, A., Thorsteinsson, V. and Stefansson, G. (2000). Spatial Variation in Abundance, Size Composition and Viable Egg Production of Spawning Cod (*Gadus morhua* L.) in Icelandic Waters. *ICES J. Mar. Sci.*, 57: 824-830.
- [ISI] Jakobsson, J. and Stefansson, G. (1999). Management of summer spawning herring off Iceland. *ICES J. Mar. Sci.* 56, 827-833.
- [PRJ] Taylor, L. and Stefansson, G. (1999). Growth and Maturation of Haddock (*Melanogrammus aeglefinus*) in Icelandic waters. *J. Northw. Atl. Fish. Sci.*
- [PRJ] Stefansson, G., Sigurjonsson, J. and Vikingsson, G. (1998). On dynamic interactions between some fish resources and cetaceans off Iceland based on a simulation model. *J. Northw. Atl. Fish. Sci.* 22, 357-370.
- [CP] Stefansson, G. (1998). Comparing different information sources in a multispecies context. *In* Fishery Stock Assessment Models. Alaska Sea Grant College Program. AK-SG-98-01. 741-758.
- [ISI] Jakobsson, J. and Stefansson, G. (1998). Rational Harvesting of the cod-capelin-shrimp complex in the Icelandic Marine Ecosystem. *Fisheries Research* 37, 7-21.
- [ISI] Stefansson, G., Skuladottir, U. and Steinarsson, B. Ae. (1998). Aspects of the ecology of a Boreal system. *ICES J. Mar. Sci.* 55(5): 859-862.
- [ISI] Stefansson, G. and Palsson, O. K. (1998). A framework for multispecies modelling of Boreal systems. *Reviews in Fish Biology and Fisheries*, 8:1, 101-104.
- [ISI] Stefansson, G. and Palsson, O. K. (1997). Statistical evaluation and modelling of the stomach content of Icelandic cod (*Gadus morhua*). *Can. J. Fish. Aquat. Sci.* 54:1, 169-181.
- [ISI] Cook, R. M., Sinclair, A. and Stefansson, G. (1997). Potential collapse of the North Sea cod stock. *Nature*, 385 (6616): 521-522.
- [PRJ] Danielsson, A., Stefansson, G., Baldursson, F., and Thorarinsson, K. (1997). Utilization of the Icelandic cod stock in a multispecies context. *Mar. Res. Econ.*, 12, 329-344.
- [CP] Björnsson, H., Sigurgeirsson, H., Stefansson, H. N. and Stefansson, G. 1997. BORMICON. Líkan til könnunar á samspili fiskstofna í norðurhöfum (in Icelandic) Fjölstofnaráðstefna Hafrannsóknastofnunar, Reykjavík, september 1996. Marine Research Institute Report Series. (mimeo).
- [CP] Stefansson, G., Sigurjonsson, J. and Vikingsson, G. (1997). Um samspil þorsks, loðnu, rækju og skiðishvala á Íslandsmiðum (in Icelandic). Fjölstofnaráðstefna Hafrannsóknastofnunar, Reykjavík, september 1996. Marine Research Institute Report Series. (mimeo).
- [ISI] Baldursson, F.M., Danielsson, A. and Stefansson, G. (1996). On the rational utilization of the Icelandic cod stock. *ICES J. Mar. Sci.*, 53:643-658.
- [ISI] Stefansson, G. (1996). Analysis of groundfish survey data: Combining the GLM and delta approaches. *ICES J. Mar. Sci.*, 53:577-588.
- [CP] Stefansson, G. 1994. Aðferðir til að meta stærð fiskistofna og markmið við nýtingu þeirra. Í: Unnsteinn Stefansson, ritstj.: *Íslendingar, hafið og auðlindir þess*. Visindafélag Íslendinga. Ráðstefnurit IV, 253-262.
- [CP] Bogstad, B., G. R. Lilly, S. Mehl, Palsson, O. K., Stefansson, G. 1994. Cannibalism and year-class strength in Atlantic cod (*Gadus morhua*) in Arcto-

boreal ecosystems (Barents Sea, Iceland and Eastern Newfoundland). *In*: Jakobsson, J. *et al.* (eds.): Cod and Climate Change. ICES Marine Science Symposia, 198, 576-599.

- [PRJ] Jakobsson, J., Gudmundsdottir, A. and Stefansson, G. 1993. Stock related changes in biological parameters of the Icelandic summer spawning herring. *Fish. Oceanogr.* 2:3/4, 260-277.
- [ISI] Foote, K.G. and Stefansson, G. 1993. Definition of the problem of estimating fish abundance over an area from acoustic line-transect measurements of density. *ICES, J. mar. Sci.* 50 369-381
- [PRJ] Magnusson, K. G. and Stefansson, G. 1989. A feedback strategy to regulate catches from a whale stock. International Whaling Commission. Special issue on Comprehensive Assessment of Whale Stocks: 171-189. 1989. (Ed. G. Donovan).
- [PRJ] Pálsson, O. K., Jonsson, E., Schopka, S. A., Stefansson, G. and Steinarsson, B. Ae. (1989). Icelandic groundfish survey data used to improve precision in stock assessments. *J. Northw. Atl. Fish. Sci.* 9 53-72.
- [CP] Stefansson, G., Kim, W. C. and Hsu, J. C. 1988. On Confidence sets in Multiple Comparisons. *Statistical Decision Theory and Related Topics*, vol. 2, pp 89-104. Springer-Verlag, S.S. Gupta and J.O. Berger eds.

**Other work, special tasks** or positions, since 1999 include chairing international meetings on fisheries in the US, Canada, South Africa, Italy (sponsored by FAO, the Pew foundation, the US National Research Council, ICES and others), membership and chairmanship of the board of several high-tech companies (Hafmynd, a producer of autonomous underwater vehicles, 2002- Matvice ehf (a nanotech company), 2003-2011, Össur, hf, 1993-2005) and organizing conferences such as chairing the NORDUnet program committee for the 2011 NORDUnet conference on computer networking.

**Other current and previous positions:**

- Employee of the Marine Research Institute, Reykjavík, 2000-2006.
- Assoc. Prof., Univ. of Iceland 1999-2003. Full Professor from 2003.
- Chairman of the Dept. of Mathematics at the University of Iceland 2000-2002.
- MRI Deputy Director 1999-2000.
- Head of MRI Modeling Division 1983-1999.

**Other student advisory functions**

- Anthony Munyaho Taabu: PhD committee, Univ. Icel. 2010-
- Óli Páll Geirsson: PhD committee, Univ. Icel. 2009-
- Ute Stenkewitz: PhD committee, Univ. Icel. 2010-
- Agnar Darri Lárusson: MSc committee, Univ. Icel. 2010-
- Grettir Heimisson: MSc committee, Univ. Icel. 2010-
- Hákon Jónsson: MSc committee, Univ. Icel. 2010-2013
- Kristinn Guðnason: MSc committee, Univ. Icel. 2010-
- Warsha Singh: Msc committee (advisor) 2006-2008
- Sveinn Margeirsson, Opponent at PhD defense, 2008.
- Trine Kvist: Opponent at PhD defense, DTU, Denmark, 1999.
- Olena Babak: MSc committee, Univ. Icel., 2005.
- Jorge Toledano: MSc committee, Univ. Icel. 2001-2005
- Ásta Jenný Sigurðardóttir: M.Paed cttee (advisor), Univ. Icel. 2004-2005.
- Jenný Brynjarsdóttir: MSc committee (advisor), Univ. Icel. 2001-2002.
- Brynjolfur Eyjolfsson: MSc committee, Univ. Icel. 1999-2000.
- Brynjolfur Eyjolfsson: 5 credit research project, Univ. Icel. 1999.

- J. Toledano: 5 credit research project, Univ. Icel. 2002.

## Earlier and other tasks and grants

### Grants and awards, as coordinator or primary recipient, before 1999

- Nordisk Fiskerinetværk (coordinator). Covered all expenses for a Nordic meeting held in Reykjavík, 1997.
- Special individual award from the National Research Council (Hvatningarverðlaun Rannsóknaráðs) 1988.
- Nato grant 1986 for travel and stay in USA to conduct joint research on multiple comparisons.
- Presidential Fellowship 1982-1983, from the Ohio State University.
- Summer scholarship 1982, from the Department of Statistics of the Ohio State University.
- Thor Thors grant from the Icelandic-American Foundation, 1981.
- Teaching award 1981 from the Department of Statistics of the Ohio State University.

### Participation in other grants

- EU: BECAUSE project (A. Temming coordinator) 2004-2007.
- EU Concerted Action: Stock assessment methods (SAP) (Ulltang coordinator)
- EU Concerted Action: Medium-term prediction techniques. (Patterson coordinator)
- Rannís grant for modelling breeding experiments in aquaculture 2003-2005

### Other work, special tasks or positions, before 1999:

- Icelandic member of ICES Advisory Committee on Fisheries Management, 1992-1998.
- Chairman of the ICES Statistics Committee 1988-1990.
- Chairman of the ICES Working Group on ADP matters, 1991-1993.
- Chairman of the ICES Working Group on Methods of Fish Stock Assessments 1991-1995.
- Chairman of MRI advisory committee for utilization of living marine resources, 1992-1998.
- Member of US National Research Council (Ocean Studies Board) committee to review the Northeast Groundfish Stock Assessment, Boston, May 1997.
- Chairman of Advisory Board of Greenland Nature Institute, 1996-2001.
- Chairman of workshop on the Spatial Analysis of Acoustic Data, Sept. 1991.
- Invited expert to ICSEAF assessment meeting, Madrid, 1989.
- Ohio State University: Statistical advice, summer 1981.
- University of Iceland Computing Centre: Programmer, programming consultant and later as a statistician. Part-time and summer jobs 1975-1981. Full-time 1978-1979.
- Attendance at a large number of working group meetings, symposia and annual science conferences, organized by ICES or other organisations (not listed individually).

## Other and earlier publications



### Teaching material, on <http://www.tutor-web.net>

- Stefansson, G. Linear algebra and statistics. Web-based tutorials including electronic slides, examples and quizzes. Printable version ~290pp. See <http://www.tutor-web.net>, select Statistics. Under continuous development.
- Stefansson, G. and Sigurdardottir, A.J. 2004. Notes on the Dynamics of Fish Populations. Web-based tutorials including electronic slides, text and quizzes. ~140pp if printed. See <http://www.tutor-web.net>, select Fishery science. Under continuous development.
- Stefansson, G. 1997. Stærðfræðileg fiskifræði (Fish population dynamics; In Icelandic). 178 pp (3rd printing, 2000).
- Stefansson, G. 1994. Notes on the Dynamics of Fish Populations. Published by the Nordic Council of Ministers. 63 pp (mimeo).

### Miscellanea, e.g. papers, posters, reports, presented at symposia or project meetings

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## Teaching experience, courses

- University of Iceland, Dept. of Mathematics: Practical calculus. 2012.
- University of Iceland, Dept. of Mathematics: Applied Linear Statistical Models. Annually, 2001-2003; 2005, 2007, 2010, 2012.
- University of Iceland, Dept. of Mathematics: Theoretical Linear Statistical Models. 2010, 2012.
- University of Iceland, Dept. of Mathematics: Computing and calculus for applied statistics. 2010.
- University of Iceland, Dept. of Mathematics: Random effects models. 2007, 2010.
- University of Iceland, Dept. of Mathematics: Linear Algebra. 2006.
- University of Iceland, Dept. of Mathematics: Introduction to mathematical statistics. 2004, 2006, 2007, 2009, 2011.
- University of Iceland, Dept. of Mathematics: Nonlinear Optimisation. Annually, 2000-2002.
- Several short courses and seminars on computer programming, operating systems and statistical packages.
- United Nations University, Fisheries Training Programme: Fish Population Dynamics. 2000, 2002, 2004, 2005, 2007, 2008, 2009.
- University of Iceland, Dept. of Mathematics: Linear Algebra and Statistics. Annually, 1999-2003.
- University of Iceland, Dept. of Mathematics: Statistics for Computer Science. 1999.
- University of Iceland, Dept. of Biology: Fish Population Dynamics (Fiskifræði II), 1997; annually, 1999-2004; 2006.
- University of Iceland, Dept. of Biology: Fish Population Dynamics portion of Fishery Science (Fiskifræði), 1995.
- University of Iceland, Continuing Education: Introductory Fish Population Dynamics (Fiskifræði II), 1995, 1997.
- University of Iceland, Continuing Education: Lectures on Fishery Science, 1993.
- University of Akureyri: Fish Population Dynamics portion of Fishery Science (Fiskifræði), 1992, 1993.
- University of Iceland: Assistant teaching in statistics 1983, 1984.
- Ohio State University: Teaching and assistant teaching in statistics 1979-1982.
- University of Iceland, Dept. of Mathematics: Assistant teaching 1978-1979.