Hrafn Loftsson Associate Professor Department of Computer Science Reykjavik University Menntavegur 1, Nauthólsvík Reykjavík IS-102, Iceland hrafn@ru.is https://hrafnl.github.io/ https://lvl.ru.is/ +354 820-6227

Hrafn Loftsson

PERSONAL DETAILS

• Born April 14, 1965, Reykjavik, Iceland. Icelandic Citizenship. Languages: Icelandic (native), English (fluent), Danish (good), German (basic).

RESEARCH INTERESTS

• My main research field is Natural Language Processing. I have published methods and tools for morphological analysis, part-of-speech tagging, named entity recognition, shallow parsing, machine translation, corpus construction, intelligent computer-assisted language learning, question-answering, and clinical diagnosis.

I have also published research in the field of Computer Science Education, in particular about teaching programming.

EDUCATION

• PhD in Computer Science/Natural Language Processing. University of Sheffield, England.

• MSc in Computer Science and Operations Research. Pennsylvania State University, USA.

1985-1989 • **BSc in Computer Science**. University of Iceland.

WORK EXPERIENCE

08/2011-Present

- Associate Professor in the Department of Computer Science, Reykjavik University.
- Research in the field of Natural Language Processing.
- Supervision of research-oriented B.Sc. students, and graduate students.
- Courses taught at the B.Sc. and M.Sc. level.

09/2013-02/2018

- Kolibri ehf., Reykjavik.
- Software Developer.
- Languages/Frameworks: C#, Xamarin, Javascript, Node.js, AngularJS.

11/2003 - 08/2011

- Assistant Professor in the School of Computer Science, Reykjavik University.
- Research in the field of Natural Language Processing.
- Supervision of research-oriented B.Sc. and M.Sc. students.

WORK EXPERIENCE (continued)

• Courses taught at the B.Sc. and M.Sc. level.

07/2001-10/2003

- Dean of the School of Computer Science, Reykjavik University.
- Responsible for budget, strategy, development and management of the School of Computer Science.
- Executive board member of Reykjavik University.
- Interaction and collaboration with students, other schools, and the industry.
- Courses taught at the B.Sc. level.

01/2000 - 06/2001

- Assistant Professor in the School of Computer Science, Reykjavik University.
- Courses taught at the B.Sc. level.

11/1997-01/2000

- Fjárfestingarbanki atvinnulífsins (FBA), Reykjavik.
- Programmer/analyst. Responsible for trading systems.

02/1995 - 10/1997

- Verðbréfamarkaður Íslandsbanka (VÍB), Reykjavik.
- Chief Information Officer.
- Design and implementation of trading systems.
- Languages/Frameworks: Delphi Pascal and Oracle PL/SQL.

07/1992 - 02/1995

- Greenwich Capital Markets (GCM), Connecticut, USA and London, England.
- Design and implementation of trading systems.
- Languages/Frameworks: C/C++ and Smalltalk.

02/1989-08/1990

- Íslenskt hugvit hf., Reykjavik.
- Design and implementation of a securities system.
- Languages/Frameworks: RPG/400.

06/1988-01/1989

- Talnakönnun hf., Reykjavik.
- Programming of a securities system.
- Languages/Frameworks: RPG.

TEACHING EXPERIENCE

Fall 2024 • Programming

Spring 2024 • Programming Languages

Fall 2023 • Programming

Spring 2023 • Web Programming (supporting the main teacher)

Fall 2022 • Programming
Fall 2021 • Programming

Fall 2020 • Natural Language Processing (MSc), Programming
Fall 2019 • Natural Language Processing (MSc), Programming

Spring 2019 • Data Structures

Fall 2018 • Natural Language Processing (MSc), Programming

Fall 2017 • App Development
Fall 2016 • App Development
Spring 2016 • Data Structures

Fall 2015 • Natural Language Processing (MSc), Programming

Spring 2015 • Object-Oriented Programming in C++

Fall 2014 • Programming

Spring 2014 • Programming Languages

Fall 2013 • Natural Language Processing (MSc), Web Mining (MSc), Independent Study

TEACHING EXPERIENCE (continued)

Spring 2013 • Data Structures, Programming Languages

Spring 2012 • Data Structures, Programming Languages, Research-based final projects

Fall 2011 • Programming, Web Mining (MSc), Research-based final projects

Spring 2011 • Data Structures

Fall 2010 • Natural Language Processing (MSc), Programming, Independent Study

Spring 2010 • Compilers

Fall 2009 • Natural Language Processing (MSc), Programming Languages, Independent Study

Fall 2008 • Natural Language Processing (MSc), Programming Languages

Spring 2008 • Compilers, Independent Study Fall 2007 • Natural Language Processing (MSc)

Spring 2007 • Compilers

Fall 2006 • Programming Languages

Spring 2006 • Introduction to Language Analysis

Spring 2004 • Compilers

Fall 2002 • Programming Languages

Spring 2002 • Compilers

Fall 2001

• Programming Languages

• Compilers, Computer Graphics

Fall 2000

• Programming Languages

Spring 2000Fall 1999Compilers, Computer GraphicsProgramming Languages

PUBLICATIONS

Journal Papers

- Ellertsson, S. O., Hlynsson, H. D., **Loftsson, H.** and Sigurðsson, E. L. 2023. Triaging Patients With Artificial Intelligence for Respiratory Symptoms in Primary Care to Improve Patient Outcomes: A Retrospective Diagnostic Accuracy Study. *Annals of Family Medicine*, **21(3)**:240–248.
- Ellertsson, S. O., **Loftsson**, **H.** and Sigurðsson, E. L. 2021. Artificial intelligence in the GPs office: A retrospective study on diagnostic accuracy. *Scandinavian Journal of Primary Health Care*, **39(4)**:448–458.
- Loftsson, H. 2008. Tagging Icelandic text: A linguistic rule-based approach. Nordic Journal of Linguistics, 31(1): 47–72.
- Loftsson, H. 2006. Tagging Icelandic text: an experiment with integrations and combinations of taggers. Language Resources and Evaluation, 40(2): 175–181.
- Matthíasdóttir, Á., Fanngeirsdóttir, K. and **Loftsson**, **H.** 2004. Women in Computer Science. *Tímarit um mennta-rannsóknir*, 1. árg. 2004. FUM, félag um menntarannsóknir.

Conference and workshop papers

• Harðarson, P.H., Loftsson, H., and Ólafsson, S. 2025. Aligning Language Models for Icelandic Legal Text Summarization. In Proceedings of The Joint 25th Nordic Conference on Computational Linguistics and 11th Baltic Conference on Human Language Technologies (NoDaLiDa/Baltic-HLT 2025). Tallin, Estonia.

- Helgason, M.F., Hlífarson, K.S., Olsen, B., Ellertsson, S.O., Loftsson, H., and Ólafsson, S. 2024. The Development
 and Feasibility of a Triage System for Use in Primary Care. In Proceedings of the 12th IEEE International Conference
 on Healthcare Informatics. Florida, USA.
- Jóhannsson, Ó. A., Arndal, B.H., Jónsson, E.Ö., Ólafsson, S. and **Loftsson**, **H.** 2024. Evaluating Icelandic Sentiment Analysis Models Trained on Translated Data. In *Proceedings of the 3rd Annual Meeting of the Special Interest Group on Under-resourced Languages @ LREC-COLING 2024*. Torino, Italy.
- Daðason, J. F. and **Loftsson, H.** 2024. Unsupervised Outlier Detection for Language-Independent Text Quality Filtering. In *Proceedings of the 3rd Annual Meeting of the Special Interest Group on Under-resourced Languages @ LREC-COLING 2024.* Torino, Italy.
- Daðason, J. F. and Loftsson, H. 2024. Text Filtering Classifiers for Medium-Resource Languages. In Proceedings of the Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024). Torino, Italy.
- Steingrimsson, S., **Loftsson, H.**, and Way, A. 2023. SentAlign: Accurate and Scalable Sentence Alignment. In *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing: System Demonstrations*. Singapore.
- Eggertsson, V., Jóhannesson, B. G., Einarsson, H. and **Loftsson, H.** 2023. Effective Entity Disambiguation in Low-Resource Languages: A Study of Icelandic. In *Proceedings of the* 22nd *IEEE/WIC International Conference on Web Intelligence and Intelligent Agent Technology*. Venice, Italy.
- Steingrimsson, S., Lohar, P., **Loftsson, H.**, and Way, A. 2023. Do Not Discard Extracting Useful Fragments from Low-Quality Parallel Data to Improve Machine Translation. In *Proceedings of The Second Workshop on Corpus Generation and Corpus Augmentation for Machine Translation (CoCo4MT) at MT Summit.* Macau, China.
- Kárason, Ö. and **Loftsson**, **H.** 2023. Is Part-of-Speech Tagging a Solved Problem for Icelandic? In *Proceedings of the* 24rd Nordic Conference on Computational Linguistics (NoDaLiDa). Tórshavn, Faroe Islands.
- Steingrímsson, S., **Loftsson, H.**, and Way, A. 2023. Filtering Matters: Experiments in Filtering Training Sets for Machine Translation. In *Proceedings of the* 24rd Nordic Conference on Computational Linguistics (NoDaLiDa). Tórshavn, Faroe Islands.
- Lindh-Knuutila, T., **Loftsson, H.**, Doval, P. A., Andersson, S., Barkarson, B., Cerezo-Costas, H., Guðnason, J., Gylfason, J.S., Hemminki, J., and Kaalep, H. 2023. Microservices at Your Service: Bridging the Gap between NLP Research and Industry. In *Proceedings of the 24rd Nordic Conference on Computational Linguistics (NoDaLiDa*). Tórshavn, Faroe Islands.
- Skarphéðinsson, N., Smári, S., Lárusdóttir, M. K., Einarsson, H., Khan, A., Nyberg, E., and **Loftsson, H.** 2023. GameQA: Gamified Mobile App for Building Multiple-Domain Question-Answering Datasets. In *Proceedings of the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL): System Demonstrations* (forthcoming). Dubrovnik, Croatia.
- Hlynsson, H. D., Ellertsson, S. O., Daðason, J. F., Sigurðsson, E. L., and **Loftsson, H.** 2022. Semi-supervised Automated Clinical Coding Using International Classification of Diseases. In *Proceedings of the 5th International Conference on Natural Language and Speech Processing (ICNLSP 2022)*. Trento, Italy.

- Nikulásdóttir, A. B., Arnardóttir, P., Barkarson, S., Guðnason, J., Gunnarsson, P. D., Ingason, A. K., Jónsson, H. P., Loftsson, H., Óladóttir, H., Rögnvaldsson, E., Sigurðsson, E. F., Sigurgeirsson, A. P., Snæbjarnarson, V., Steingrímsson, S. and Örnólfsson, G. T. 2022. Help Yourself from the Buffet: National Language Technology Infrastructure Initiative on CLARIN-IS. In M. Monachini and M. Eskevich (eds.), Selected Papers from the CLARIN Annual Conference 2021. Linköping Electronic Conference Proceedings 189.
- Friðriksdóttir, S. R., Eggertsson, V. Á., Jóhannesson, B. G., Daníelsson, H., **Loftsson, H.**, and Einarsson, H. 2022. Building an Icelandic Entity Linking Corpus. In *Proceedings of the workshop 'Dataset Creation for Lower-Resourced Languages'*, at the 13th International Conference on Language Resources and Evaluation (LREC 2022). Marseille, France.
- Steingrímsson, S., O'Brien, L., Ingimundarson, F., **Loftsson, H.** and Way, A. 2022. Compiling a Highly Accurate Bilingual Lexicon by Combining Different Approaches. In *Proceedings of the GLOBALEX Workshop on Linked Lexicography, at the* 13th International Conference on Language Resources and Evaluation (LREC 2022). Marseille, France.
- Tadić, M., Farkaš, D., Filko, M., Vasiļevskis, A., Vasiļevs, A., Ziediņš, J., Motika, Ž., Fishel, M., Loftsson, H., Guðnason, J., Borg, C., Cortis, K., Attard, J. and Spiteri, D. 2022. National Language Technology Platform for Public Administration. In Proceedings of the workshop 'Towards Digital Equality', at the 13th International Conference on Language Resources and Evaluation (LREC 2022). Marseille, France.
- Daðason, J. F. and **Loftsson, H.**. 2022. Pre-training and Evaluating Transformer-based Language Models for Icelandic. In *Proceedings of the* 13th International Conference on Language Resources and Evaluation (LREC 2022). Marseille, France.
- Jónsson, H. P. and **Loftsson**, **H.** 2022. DMS: A System for Delivering Dynamic Multitask NLP Tools. In *Proceedings* of the 14th International Conference on Agents and Artificial Intelligence Volume 1: NLPinAI. Online.
- Steingrímsson, S., **Loftsson, H.** and Way, A. 2021. PivotAlign: Leveraging High-Precision Word Alignments for Bilingual Dictionary Inference. In *Proceedings of the 4th Translation Inference Across Dictionaries (TIAD) shared task. Zaragoza, Spain.* Online.
- Steingrímsson, S., Lohar, P., **Loftsson, H.** and Way, A. 2021. Effective Bitext Extraction From Comparable Corpora Using a Combination of Three Different Approaches. In *Proceedings of the* 14th Workshop on Building and Using Comparable Corpora (BUCC). Varna, Bulgaria (Online).
- Loftsson, H. and Matthiasdóttir, Á. 2021. Moving Classes in a Large Programming Course Online: An Experience Report. In *Proceedings of the 2nd International Computer Programming Education Conference*. Braga, Portugal (Online).
- Daðason, J. F., Loftsson, H., Sigurðardóttir, S. and Björnsson, Þ. 2021. IceSum: An Icelandic Text Summarization Corpus. In Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics (NAACL): Student Research Workshop. Mexico City, Mexico (Online).
- Steingrímsson, S., **Loftsson, H.** and Way, A. 2021. CombAlign: a Tool for Obtaining High-Quality Word Alignments. In *Proceedings of the* 23rd Nordic Conference of Computational Linguistics (NODALIDA-2021). Reykjavik, Iceland (Online).
- Ingólfsdóttir, S. L, Guðjónsson, Á. A. and **Loftsson**, **H.** 2020. Named Entity Recognition for Icelandic: Annotated Corpus and Models. In *Proceedings of the* 8th International Conference on Statistical Language and Speech Processing (SLSP 2020). Cardiff, United Kingdom.

- Jónsson, H. P., Símonarson, H. B., Snæbjarnarson V., Steingrímsson, S., and **Loftsson, H.** 2020. Experimenting with Different Machine Translation Models in Medium-Resource Settings. In *Proceedings of the 23rd International Conference on Text, Speech and Dialogue (TSD 2020)*. Brno, Czech Republic (Online).
- Steingrímsson, S., **Loftsson**, **H.** and Way, A. 2020. Effectively Aligning and Filtering Parallel Corpora under Sparse Data Conditions. In *Proceedings of the ACL Student Research Workshop*. Seattle, Washington (Online).
- Matthíasdóttir, Á. and **Loftsson**, **H.** 2020. Improving the implementation of a first-semester programming course. In *Proceedings of the* 16th *International CDIO Conference*. Bangkok, Thailand.
- Nikulásdóttir, A.B., Guðnason, J., Ingason, A. K., **Loftsson, H.**, Rögnvaldsson, E., Sigurðsson, E. F. and Steingrímsson, S. 2020. Language Technology Programme for Icelandic 2019-2023. In *Proceedings of the* 12th International Conference on Language Resources and Evaluation (LREC 2020). Marseille, France.
- Daðason, J. F., Mollbert, D., **Loftsson, H.** and Bjarnadóttir, K. 2020. Kvistur: a BiLSTM Compound Splitter for Icelandic. In *Proceedings of the* 12th International Conference on Language Resources and Evaluation (LREC 2020). Marseille, France.
- Loftsson, H. and Matthíasdóttir, Á. 2019. Using Flipped Classroom and Team-Based Learning in a First-Semester Programming Course: An Experience Report. In *Proceedings of TALE 2019, IEEE International Conference on Teaching, Assessment, and Learning for Engineering.* Yogyakarta, Indonesia.
- Ingólfsdóttir S. L., Porsteinsson, S. and **Loftsson, H.** 2019. Towards High Accuracy Named Entity Recognition for Icelandic. In *Proceedings of the* 22nd Nordic Conference of Computational Linguistics (NODALIDA-2019). Turku, Finland.
- Ingólfsdóttir S. L., **Loftsson, H.**, Daðason, J. F., and Bjarnadóttir, K. 2019. Nefnir: A high accuracy lemmatizer for Icelandic. In *Proceedings of the* 22nd Nordic Conference of Computational Linguistics (NODALIDA-2019). Turku, Finland.
- Steingrímsson, S., Kárason, Ö. and **Loftsson, H.** 2019. Augmenting a BiLSTM tagger with a Morphological Lexicon and a Lexical Category Identification Step. In *Proceedings of Recent Advances in Natural Language Processing (RANLP 2019)*. Varna, Bulgaria.
- Porsteinsson, V., Óladóttir, H. and **Loftsson, H.** 2019. A Wide-Coverage Context-Free Grammar for Icelandic and an Accompanying Parsing System. In *Proceedings of Recent Advances in Natural Language Processing (RANLP 2019)*. Varna, Bulgaria.
- Matthíasdóttir, Á. and **Loftsson, H.** 2019. Flipped Learning in a Programming Course: Students' Attitudes. In *Proceedings of the* 15th International CDIO Conference. Aarhus, Denmark.
- Ingason, A. K., **Loftsson, H.**, Rögnvaldsson, E., Sigurðsson, E. F. and Wallenberg, J. C. 2014. Rapid Deployment of Phrase Structure Parsing for Related Languages: A Case Study of Insular Scandinavian. In *Proceedings of the 9th International Conference on Language Resources and Evaluation (LREC 2014).* Reykjavik, Iceland.
- Helgadóttir, S., **Loftsson, H.** and Rögnvaldsson, E. Correcting Errors in a New Gold Standard for Tagging Icelandic Text. In *Proceedings of the* 9th International Conference on Language Resources and Evaluation (LREC 2014). Reykjavik, Iceland.
- Loftsson, H. and Östling, R. 2013. Tagging a Morphologically Complex Language Using an Averaged Perceptron Tagger: The Case of Icelandic. In *Proceedings of the* 19th Nordic Conference of Computational Linguistics (NODALIDA-2013). Oslo, Norway.

- Loftsson, H. 2013. Tagging the Past: Experiments Using the Saga Corpus. In *Proceedings of the* 19th Nordic Conference of Computational Linguistics (NODALIDA-2013). Oslo, Norway.
- Volodina, E., Borin, L., **Loftsson, H.**, Arnbjörnsdóttir, B. and Leifsson, G.Ö. 2012. Waste not, want not: Towards a system architecture for ICALL based on NLP component re-use. In *Proceeding of the SLTC 2012 workshop on NLP for CALL. Linköping Electronic Conference Proceedings*, **80**: 47–58.
- Volodina, E., **Loftsson, H.**, Arnbjörnsdóttir, B., Borin, L. and Leifsson, G.Ö. 2012. Towards a system architecture for ICALL. In Proceedings of the ICCE Conference on Technology Enhanced Language Learning (TELL), ICCE 2012 The 20th International Conference on Computers in Education. Singapore.
- Helgadóttir, S., Svavarsdóttir, Á., Rögnvaldsson, E., Bjarnadóttir, K. and **Loftsson, H.** 2012. The Tagged Icelandic Corpus (MÍM). In *Proceedings of the SaLTMiL-AfLaT Workshop on "Language technology for normalisation of less-resourced languages"*, 8th International Conference on Language Resources and Evaluation (LREC 2012). Istanbul, Turkev.
- Guðnason, J., Kjartansson, O., Jóhannsson J., Carstensdóttir, E., Vilhjálmsson, H., Loftsson, H., Helgadóttir, S., Jóhannsdóttir, K. and Rögnvaldsson, E. 2012. Almannaromur: An Open Icelandic Speech Corpus. In *Proceedings of the Third International Workshop on Spoken Language Technologies for Under-resourced languages (SLTU 2012)*. Cape Town, South Africa.
- Loftsson, H., Helgadóttir, S. and Rögnvaldsson, E. 2011. Using a morphological database to increase the accuracy in PoS tagging. In *Proceedings of Recent Advances in Natural Language Processing (RANLP 2011)*. Hissar, Bulgaria.
- Brandt, M. D., **Loftsson, H.**, Sigurþórsson, H. and Tyers, F. M. 2011. Apertium-IceNLP: A rule-based Icelandic to English machine translation system. In *Proceedings of the* 15th Annual Conference of the European Association for Machine Translation (EAMT-2011). Leuven, Belgium.
- Loftsson, H., Yngvason, J. H., Helgadóttir, S. and Rögnvaldsson, E. 2010. Developing a PoS-tagged corpus using existing tools. In *Proceedings of "Creation and use of basic lexical resources for less-resourced languages"*, workshop at the 7th International Conference on Language Resources and Evaluation, LREC 2010. Valetta, Malta.
- Henrich, V., Reuter, T. and **Loftsson, H.** 2009. CombiTagger: A System for Developing Combined Taggers. In K. Jokinen and E. Bick (eds.), Proceedings of the 22nd International FLAIRS Conference, Special Track: "Applied Natural Language Processing". Sanibel Island, Florida, USA.
- Loftsson, H., Kramarczyk, I., Helgadóttir, S. and Rögnvaldsson, E. 2009. Improving the PoS tagging accuracy of Icelandic text. In *Proceedings of the* 17th Nordic Conference of Computational Linguistics (NODALIDA-2009). Odense, Denmark.
- Ingason, A. K., Jóhannsson, S. B., Helgadóttir, S., **Loftsson, H.** and Rögnvaldsson, E. 2009. Context-Sensitive Spelling Correction and Rich Morphology. In *Proceedings of the* 17th Nordic Conference of Computational Linguistics (NODALIDA-2009). Odense, Denmark.
- Rögnvaldsson, E., **Loftsson, H.**, Bjarnadóttir, K., Helgadóttir, S., Nikulásdóttir, A. B., Whelpton, M. and Ingason, A. I. 2009. Icelandic Language Resources and Technology: Status and Prospects. In *Proceedings of the NoDaLiDa 2009 Workshop "Nordic Perspectives on the CLARIN Infrastructure of Common Language Resources"*. Odense, Denmark.
- Loftsson, H. 2009. Correcting a POS-Tagged Corpus Using Three Complementary Methods. In *Proceedings of the* 12th Conference of the European Chapter of the ACL (EACL 2009). Athens, Greece.

- Ingason, A. K., Helgadóttir, S., **Loftsson, H.** and Rögnvaldsson, E. 2008. A Mixed Method Lemmatization Algorithm Using Hierarchy of Linguistic Identities (HOLI). In B. Nordström and A. Ranta (eds.), *Advances in Natural Language Processing*, 6th International Conference on NLP, GoTAL 2008, Proceedings. Gothenburg, Sweden.
- Loftsson, H. and Rögnvaldsson, E. 2008. Linguistic richness and technical aspects of an incremental finite-state parser. In *Proceedings of "Partial Parsing 2008"*, workshop at the 6th International Conference on Language Resources and Evaluation, LREC 2008. Marrakech, Morocco.
- Loftsson, H. and Rögnvaldsson, E. 2007. IceNLP: A Natural Language Processing Toolkit for Icelandic. In *Proceedings of InterSpeech 2007, Special session: "Speech and language technology for less-resourced languages"*. Antwerp, Belgium.
- Loftsson, H. and Rögnvaldsson, E. 2007. IceParser: An Incremental Finite-State Parser for Icelandic. In J. Nivre, H-J. Kaalep, K. Muischnek and M. Koit (eds.), Proceedings of the 16th Nordic Conference of Computational Linguistics (NODALIDA-2007). Tartu, Estonia.
- Loftsson, H. 2007. Tagging Icelandic Text using a Linguistic and a Statistical Tagger. In *Proceedings of Human Language Technologies 2007: The Conference of the North American Chapter of the ACL*. Rochester, NY, USA.
- Loftsson, H. 2006. Tagging a Morphologically Complex Language Using Heuristics. In T. Salakoski, F. Ginter, S. Pyysalo, and T. Pahikkala (eds.), Advances in Natural Language Processing, 5th International Conference on NLP, FinTAL 2006, Proceedings. Turku, Finland.

Extended abstracts and posters

- Vasiļevskis, A., Ziediņš, J., Tadić, M., Motika, Ž., Fishel, M., Loftsson, H., Guðnason, J., Borg, C., Cortis, K., Attard, J. and Spiteri, D. 2022. NLTP: National Language Technology Platform. In *Proceedings of New Trends in Translation and Technology*. Rhodes Island, Greece.
- Vasiļevskis, A., Ziediņš, J., Tadić, M., Motika, Ž., Fishel, M., **Loftsson, H.**, Guðnason, J., Borg, C., Cortis, K., Attard, J. and Spiteri, D. 2022. National Language Technology Platform (NLTP): overall view. In *Proceedings of the 23rd Annual Conference of the European Association for Machine Translation (EAMT)*. Ghent, Belgium.
- Nikulásdóttir A. B., Arnardóttir, Þ., Guðnason, J., Gunnarsson, Þ. D., Ingason, A.K., Jónsson, H. P., Loftsson, H., Óladóttir, H., Sigurðsson, E. F., Sigurgeirsson A. Þ., Snæbjarnarson, V. and Steingrímsson, S. 2021. Help Yourself from the Buffet: National Language Technology Infrastructure Initiative on CLARIN-IS. In Proceedings of the CLARIN Annual Conference. Online.
- Adams, E. S., Hazzan, O., Loftsson, H. and Young, A. 2003. International perspective of women and computer science. In *Proceedings of the 34th SIGCSE technical symposium on Computer science education, SigCSE '03*. Reno, Nevada, USA.

Edited volumes

• Loftsson, H., Rögnvaldsson, E. and Helgadóttir, S. (eds). 2010. Advances in Natural Language Processing. 7th International Conference on NLP, IceTAL 2010, Reykjavik, Iceland, August 2010, Proceedings. © 2010 Springer.

Non-refereed work

• Ellertsson, S., Loftsson, H., Ólafsson, S. and Sigurðsson, E. L. 2023. Notkun gervigreindar í heilbrigðiskerfinu [The use of AI in the health system]. *Tölvumál journal*. November 2023.

- Matthíasdóttir, Á. and Loftsson, H. 2020. Vendikennsla í tölvunarfræði [Flipped classroom in Computer Science]. Tölvumál journal. November 2020.
- Loftsson, H. 2014-2015. Hugsaðu eins og tölvunarfræðingur. An Icelandic translation of the book "How to Think Like a Computer Scientist", by Allen B. Downey.
- Loftsson, H. 2010. Nýtt íslenskt-enskt grófþýðingarkerfi frá Máltæknisetri [A new Icelandic-English shallow-transfer machine translation system from the Icelandic Centre for Language Technology]. Reykjavik University magazine. March 2010.
- Loftsson, H. 2009. Máltækni í HR [Language Technology at RU]. Reykjavík University magazine. May 2009.
- Loftsson, H. 2008. Markari og hlutaþáttari fyrir íslenskan texta [A tagger and a parser for Icelandic text]. Tölvumál journal. February 2008.
- Loftsson, H. and Ingason, A. K. 2007. IceNLP A Natural Language Processing Toolkit for Icelandic: User guide.
- Loftsson, H. and Rögnvaldsson, E. 2006. A shallow syntactic annotation scheme for Icelandic text. Technical Report RUTR-SSE06004, Department of Computer Science, Reykjavik University.

SOFTWARE

• Software development is an integrated part of my research, as witnessed, for example, by the following systems:

IceNLP – an open source NLP toolkit, implemented in Java, for analyzing and processing Icelandic text. Available for download at https://github.com/hrafnl/icenlp.

CombiTagger – an open source system, implemented in Java, for developing and evaluating combined taggers. Available for download at https://github.com/hrafnl/CombiTagger.

AWARDS AND GRANTS

- University Cooperation Fund ("Samstarfssjóður háskóla")
 - *Title*: New solutions for the healthcare system.
 - Project Manager: Hrafn Loftsson, Reykjavik University (RU)
 - Collaborators: Jón Guðnason (RU), Hannes H. Vilhjálmsson (RU), Stefán Ólafsson (RU), Haukur Ingi Jónsson (RU), Hafsteinn Einarsson, University of Iceland (UI), Emil L. Sigurðsson (UI), Steindór O. Ellertsson (UI).
 - Duration: 2 years. Grant: 35,100,000 ISK.
- 2023 The Icelandic Student Innovation Fund
 - Title: Question Answering: An app and a machine learning model.
 - Project Manager: Hrafn Loftsson, Reykjavik University
 - Collaborators: Eric Nyberg and Njáll Skarphéðinsson, Carnegie Mellon University.
 - Duration: 3 months. Grant: 3,060,000 ISK.
- The Strategic Research and Development Programme for Language Technology
 - Title: Automatic Entity Linking for Icelandic.
 - Project Manager: Ólafur Páll Geirsson, Snjallgögn ehf.
 - Collaborators: Snjallgögn ehf.; Hrafn Loftsson, Reykjavik University; Hafsteinn Einarsson, University of Iceland
 - Duration: 3 years Grant: 69 million ISK.
- The Strategic Research and Development Programme for Language Technology
 - Title: Using Machine Learning Models for Clinical Diagnoses.

AWARDS AND GRANTS (continued)

- Project Manager: Emil Lárus Sigurðarson, Primary Health Care service of the Capital Area (PHCCA)
- Collaborators: Hrafn Loftsson, Reykjavik University; Steindór Oddur Ellertsson, PHCCA
- Duration: 18 months. Grant: 36.6 million ISK.

• The Strategic Research and Development Programme for Language Technology

- Title: Spoken Dialogue Framework for Icelandic.
- Project Manager: Hannes H. Vilhjálmsson, Reykjavik University (RU)
- Collaborators: Hrafn Loftsson, RU, Jón Guðnason, RU; Anna Björk Nikulásdóttir, Grammatek ehf.; Eydís Huld Magnúsdóttir, Tiro ehf.; Já ehf.; Akraneskaupstaður.
- Duration: 2 years. Grant: 70 million ISK.

2021 • CEF-Telecom

- Title: National Language Technology Platform (NLTP).
- Project Manager: Tilde (Latvia)
- Collaborators: Reykjavik University (Iceland), Culture Information Systems Centre (Latvia), Malta Information Technology Agency, Office of the State Advocate (Malta), University of Malta, University of Tartu (Estonia), Central State Office for the Development of Digital Society (Croatia), University of Zagreb (Croatia).
- Duration: 2 years. Grant: 796,000 EUR.

2021 • CEF-Telecom

- Title: Microservices at your service: bridging the gap between NLP research and industry.
- Project Manager: Lingsoft (Finland)
- Collaborators: Reykjavik University (Iceland), University of Tartu (Estonia), Gradient (Spain).
- Duration: 2 years. Grant: 553,000 EUR.

2020 • The Icelandic Student Innovation Fund

- Title: Automatic topic classification of Icelandic texts.
- Project Manager: Hrafn Loftsson, Reykjavik University
- Collaborator: Vilhjálmur Þorsteinsson, Miðeind ehf.
- Duration: 3 months. Grant: 900,000 ISK.

2020 • The Icelandic Student Innovation Fund

- Title: Pre-nominal adjective order in Icelandic.
- Project Manager: Hrafn Loftsson, Reykjavik University
- Duration: 3 months. Grant: 900,000 ISK.

2019 • Almannarómur: Language Technology for Icelandic

- Projects: Speech Recognition, Speech Synthesis, Machine Translation, Grammar Checking, Tools and Resources.
- Project Manager: Anna Björk Nikulásdóttir
- Collaborators: SÍM (Samstarf um íslenska máltækni)
- Duration: 5 years.

2019 • The Strategic Research and Development Programme for Language Technology

- Title: Automatic Text Summarization for Icelandic.
- Project Manager: Hrafn Loftsson, Reykjavik University
- Collaborator: Morgunblaðið, mbl.is
- Duration: 1 year. Grant: 11.3 million ISK.

2019 • The Strategic Research and Development Programme for Language Technology

- Title: Named Entity Recognition for Icelandic.
- Project Manager: Hrafn Loftsson, Reykjavik University
- Collaborator: The Icelandic Stock Exchange

AWARDS AND GRANTS (continued)

• Duration: 1 year. Grant: 8.4 million ISK.

• The Icelandic Student Innovation Fund

- Title: An Open-Source Language-Independent Question-Answering System.
- Project Manager: Hrafn Loftsson, Reykjavik University
- Co-applicants: Jón Gunnar Þorsteinsson, University of Iceland.
- Duration: 3 months. Grant: 340,000 ISK.

2011 • NordPlus – Nordiske Sprog og Kultur

- Title: A System Architecture for Intelligent Computer-Assisted Language Learning.
- Project Manager: Hrafn Loftsson, Reykjavik University.
- Co-applicants: Lars Borin, University of Gothenburg; Birna Arnbjörnsdóttir, University of Iceland.
- Duration: 2 years. Grant: 38,500 EUR.

2010 • The Icelandic Student Innovation Fund

- Title: A gold standard for Icelandic.
- Project Manager: Eiríkur Rögnvaldsson, University of Iceland.
- Co-applicants: Hrafn Loftsson, Reykjavik University; Sigrún Helgadóttir, The Árni Magnússon Institute for Icelandic Studies.
- Duration: 3 months. Grant: 420,000 ISK.

2010 • The Icelandic Student Innovation Fund

- Title: An improved shallow parser for Icelandic text.
- Project Manager: Hrafn Loftsson.
- Co-applicants: Eiríkur Rögnvaldsson, University of Iceland; Jón Eðvald Vignisson, CLARA.
- Duration: 3 months. Grant: 280,000 ISK.

2009 • The Icelandic Student Innovation Fund

- *Title*: Tagging and correctiong a new corpus.
- Project Manager: Hrafn Loftsson.
- Co-applicants: Sigrún Helgadóttir, The Árni Magnússon Institute for Icelandic Studies; Eiríkur Rögnvaldsson, University of Iceland.
- Duration: 3 months. Grant: 280,000 ISK.

2009 • Rannis – The Icelandic Centre for Research (Grant of Excellence)

- Title: Viable Language Technology Beyond English Icelandic as a Test Case
- Project Manager: Eiríkur Rögnvaldsson, University of Iceland.
- Co-applicants: Hrafn Loftsson, Reykjavik University; Matthew J. Whelpton, University of Iceland; Kristín Bjarnadóttir, The Árni Magnússon Institute for Icelandic Studies; Anthony Kroch and Joel Wallenberg, University of Pennsylvania; Mikel L. Forcada, Universitat d'Alacant.
- Duration: 3 years. Grant: 45 million ISK.

2007 • Rannis – The Icelandic Centre for Research

- Title: Improved tagging accuracy of Icelandic text.
- Project Manager: Hrafn Loftsson.
- Co-applicants: Eiríkur Rögnvaldsson, University of Iceland and Sigrún Helgadóttir, The Institute of Lexicography, University of Iceland.
- Duration: 2 years. Grant: 3.1 million ISK.

• Rannis – The Icelandic Centre for Research

- *Title*: Context-sensitive spell checking.
- Project Manager Eiríkur Rögnvaldsson, University of Iceland.
- Co-applicants: Hrafn Loftsson and Sigrún Helgadóttir, The Institute of Lexicography, University of Iceland.

AWARDS AND GRANTS (continued)

• Duration: 2 years. Grant: 3.1 million ISK.

2006 • Rannis – The Icelandic Centre for Research

- Title: Shallow parsing of Icelandic text.
- Project Manager: Eiríkur Rögnvaldsson, University of Iceland.
- Co-applicants: Hrafn Loftsson and Sigrún Helgadóttir, The Institute of Lexicography, University of Iceland.
- Duration: 1 year. Grant: 3.8 million ISK.

2006 • University of Iceland

- Title: Context-sensitive spell checking.
- Project Manager: Eiríkur Rögnvaldsson, University of Iceland.
- Co-applicants: Hrafn Loftsson and Sigrún Helgadóttir, The Institute of Lexicography, University of Iceland.
- 1. prize in a competition. Prize: 500,000 ISK.

2006 • The Icelandic Student Innovation Fund

- Title: Utilisation of a large lexicon for tagging Icelandic text.
- Project Manager: Hrafn Loftsson.
- Co-applicant: Kristín Bjarnadóttir, The Institute of Lexicography, University of Iceland.
- Duration: 3 months. Grant: 220,000 ISK.

2003 • The Icelandic Student Innovation Fund

- Title: Women and Computer Science.
- Project Manager: Ásrún Matthíasdóttir, University of Iceland.
- Co-applicant: Hrafn Loftsson.
- Duration: 3 months. Grant: 220,000 ISK.

SUPERVISION OF STUDENT RESEARCH WORK

Ph.D. students

2021-2025	• Steindór Oddur Ellertsson, Univeresity of Iceland. Thesis: The use of machine learning models for
	diagnostic and outcome prediction in primary care. Supervisor: Emil Lárus Sigurðsson. Co-supervisor:
	Hrafn Laftsson

- 2019-2025
 Jón Friðrik Daðason, Reykjavik University. Thesis: Language Representation Models for Low and Medium-Resource Languages. Supervisor: Hrafn Loftsson.
- Steinþór Steingrímsson, Reykjavik University. Thesis: Effectively Compiling Parallel Corpora for Machine Translation in Resource-Scarce Conditions. Supervisor: Hrafn Loftsson. Co-supervisor: Andy Way.

Ph.D. committees

- Fall 2022– Steinunn Rut Friðriksdóttir. Ph.D. University of Iceland. Committe member.
- Branislav Bédi. Ph.D. University of Iceland. Thesis: Learning Icelandic in Virtual Reykjavik: Simulating real-life conversations with Embodied Conversational Agents using multimodal clarification requests. Opponent.
- Spring 2013
 Francis Morton Tyers. Ph.D. Universitat d'Alacant. Thesis: Feasible lexical selection for rule-based machine translation. External reviewer.
- Fall 2012 Yvonne Adesam. Ph.D. Stockholm University. Thesis: Multilingual Trees Investigating High-quality Cross-lingual Parallel Corpus Processing. Committee member.

SUPERVISION OF STUDENT RESEARCH WORK (continued)

M.Sc. theses

• Róbert Badí Baldursson. M.Sc., Reykjavik University. Thesis (60 E0	CTS): Title to be determined.
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- Fall 2022 Örvar Hafsteinn Kárason. M.Sc., Reykjavik University. Project (30 ECTS): Title to be determined.
- Benedikt Geir Jóhannesson. M.Sc., Reykjavik University. Thesis (60 ECTS): Entity Linking for Icelandic.
- Spring 2021
 Tinna Þ. Sigurðardóttir. M.Sc., Reykjavik University. Project (30 ECTS): Representing Icelandic in Corpora.
- Gunnar Pálsson. M.Sc., Reykjavik University. Project (30 ECTS): Adapting and improving a shallow parser.
- Ásmundur Guðjónsson. M.Sc., Reykjavik University. Thesis (60 ECTS): Named Entity Recognition for Icelandic: Comparing and combining different machine learning methods.
- Svanhvít L. Ingófsdóttir. M.Sc., Reykjavik University. Thesis (60 ECTS): Named Entity Recognition for Icelandic annotated corpus and baselines.
- 4 Hulda Óladóttir. M.A., University of Iceland (co-supervision). Thesis (60 ECTS): Upplýsingaútdráttur
 Nýting upplýsingaramma til málmyndunar [Information Extraction].
- Spring 2014 Karin Christiansen. M.Sc., Reykjavik University. Project (30 ECTS): Summarization of Icelandic texts.
- Guðmundur Örn Leifsson. M.Sc., University of Iceland. Thesis (60 ECTS): Intelligent Writing Support for Second Language Lerners of Icelandic using Web Services.
- Martha Dís Brandt. M.Sc., January 2011, Reykjavik University. Thesis (60 ECTS): Developing an Icelandic to English Shallow Transfer Machine Translation System.
- Ida Kramarczyk. M.Sc., June 2009, Reykjavik University. Thesis (60 ECTS): Improving the tagging accuracy of Icelandic text.
- Timo Reuter and Verena Henrich. M.Sc., March 2009, University of Applied Sciences, Darmstadt (co-supervision). Thesis: LISGrammarChecker: Language Independent Statistical Grammar Checker.

M.Sc. independent studies

- Spring 2023 Örvar Hafsteinn Kárason. Reykjavik University. Independent Study: Data-driven Part-of-Speech Taggers for Icelandic: Comparison and Error Analysis.
- Fall 2010 Hlynur Sigurþórsson. Reykjavik University. Independent Study: Daemonizing and enhancing IceNLP for the purpose of machine translation.
- Fall 2010 Andreas Völlger (exchange student). University of Applied Sciences, Darmstadt. Tagging and parsing German using Spejd.
- Fall 2008 Timo Reuter and Verena Henrich (exchange students) University of Applied Sciences, Darmstadt. CombiTagger: A system for developing combined taggers.

$M.Sc.\ committees$

- Spring 2025 Kaustab Chandra Sahu. M.Sc. Reykjavik University. Project (30 ECTS): Language Models for Clinical Text Analysis. Committee member.
- Spring 2025 Atli Egilsson. M.Sc. Reykjavik University. Project (30 ECTS): Understanding Icelandic Insurance Claims: From text to incident categories. Committee member.
- Elena Ovsiannikova. M.Sc. Reykjavik University. Project (30 ECTS): IceSpike: Investigating Spiking Neural Networks for Icelandic Text Classification. Examiner.
- Spring 2024
 Þórir Hrafn Harðarson. M.Sc. Reykjavik University. Project (30 ECTS): Aligning language models to professional domains using preference training. Committee member.
- Spring 2022
 Elías Ingi Björgvinsson. M.Sc. Reykjavik University. Project (30 ECTS): Software service oriented framework for multilingual conversational agents. Examiner.
- Fall 2021 Vésteinn Snæbjarnarson. M.Sc. University of Iceland. Thesis (60 ECTS): Automated methods for Question-Answering in Icelandic. Examiner.

SUPERVISION OF STUDENT RESEARCH WORK (continued)

- Fall 2020 Egill Anton Hlöðversson. M.Sc. Reykjavik University. Thesis (60 ECTS): Spoken Language Understanding for Icelandic Airline Reservation System, and Translated Corpus. Examiner.
- Guðmundur Páll Kjartansson. M.Sc. Reykjavik University. Project (30 ECTS): Experimenting with Time and Depth Control in Chess Engines. Examiner.
- Spring 2019
 Julia Elisabeth Haidn. M.Sc. Reykjavik University. Project (30 ECTS): Flight Recommender System
 Using Implicit Feedback. Examiner.
- Anna Vigdís Rúnarsdóttir. M.Sc. Reykjavik University. Project (30 ECTS): Re-Scoring Word Lattices from Automatic Speech Recognition System Based on Manual Error Corrections. Examiner.
- Fall 2013 Tihomir Rangelov. M.A. University of Iceland. Prjoject (30 ECTS): Shallow-Transfer Rule-Based Machine Translation between Icelandic and Swedish. External reviewer.
- Spring 2012 Jón Daðason. M.Sc., June 2012, University of Iceland. Thesis (60 ECTS): Post-correction of Icelandic OCR text. Examiner.
- Spring 2011
 Valdís Sigurþórsdóttir. M.Sc., June 2011, Reykjavik University. Thesis (60 ECTS): Towards Automatic Generation of Realistic Web Query Sequences. Examiner.

B.Sc. theses

- Fall 2023 Ólafur Aron Jóhannsson, Birkir Arndal, and Eysteinn Örn Jónsson, B.Sc., January 2024, Reykjavik University. Thesis: Evaluating Icelandic Sentiment Analysis Models Trained on Translated Data.
- Spring 2023
 Baldur Olsen, Kári Steinn Hlífarsson, and Magnús Friðrik Helgason. B.Sc., June 2023, Reykjavik University. Thesis: A Dual Interface Approach for Patient Diagnosis and Doctor Consultation with the Help of Artificial Intelligence.
- Fall 2018 Svanhvít Lilja Ingólfsdóttir and Sigurjón Þorsteinsson. B.Sc., February 2019, Reykjavik University. Thesis: Named Entity Recognition for Icelandic.
- Spring 2010
 Svavar K. Lúthersson. B.Sc., June 2010, Reykjavik University. Thesis: Tagging and parsing a large corpus.
- Spring 2009
 Aðalsteinn Tryggvason. B.Sc., June 2010, Reykjavik University. Thesis: Named Entity Recognition for Icelandic.
- Spring 2009
 Hlynur Sigurþórsson and Pétur Sigurðsson. B.Sc., June 2010, Reykjavik University. Thesis: Using IceNLP in Computer-Assisted Language Learning.
- Fall 2008 Kristjana Guðjónsdóttir. B.Sc., January 2009, Reykjavik University. Thesis: A Prototype of an Icelandic Grammar Checker.
- Spring 2007
 Frank A. B. Cassata. B.Sc., June 2007, Reykjavik University. Thesis: Automatic thesaurus extraction for Icelandic.

B.Sc. independent studies / research opportunity

- Spring 2014
 Ólafur P. Geirsson, Guðmundur Harðarson, Guðmundur P. Guðmundsson. Reykjavik University. Undergraduate Research Opportunity: Orðspor: Labeling named entities with computer games.
- Fall 2012 Emmanuel Günther. University of Applied Sciences, Darmstadt (co-supervision). Undergraduate Research Opportunity: An Intelligent BOT.
- Fall 2011 Olafur Waage. Reykjavik University. Independent Study: Continued development of Apertium-IceNLP: A rule-based Icelandic to English machine translation system.
- Fall 2009 Jökull H. Yngvason. Reykjavik University. Independent Study: Automatic extraction of verb subcategorization frames for Icelandic

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Summer 2023
 Njáll Skarphéðinsson, Eysteinn Örn Jónsson, and Logi Sigurðarson. M.Sc. and B.Sc. student,s Reykjavik University. Project: Spanning the Gap: Boosting Question-Answering by Standardizing Answer Spans.

SUPERVISION OF STUDENT RESEARCH WORK (continued)

Summer 2020 • Gunnar Pálsson. B.Sc. student, Reykjavik University. Project: Pre-Nominal Adjective Order in Icelandic.

• Ólafur P. Geirsson. B.Sc. student, Reykjavik University. Project: A language independent Question-Answering System.

Summer 2010 • Ragnar L. Sigurðsson. B.Sc. student, Reykjavik University. Project: An improved shallow parser for Icelandic.

Summer 2009 • Jökull H. Yngvason. B.Sc. student, Reykjavik University. Project: Developing a PoS-tagged corpus using existing tools.

• Anna M. Sigurðardóttir. B.Sc. student, Reykjavik University. Project: Utilisation of a large lexicon for tagging Icelandic text.

SERVICES

• Selection Committee member for Chair position at the Department of Computer Science, Reykjavik University.

• Reviewer for *NoDaLiDa 2023* – The 24rd Nordic Conference of Computational Linguistics, Tórshavn, Faroe Islands.

• Reviewer for the 2022 Conference on Empirical Methods in Natural Language Processing (EMNLP 2022).

• Reviewer for Nordic Journal of STEM Education.

Selection Committee member for the Department of Computer Science, Reykjavik University.

• Local Chair and Reviewer for NoDaLiDa~2021 – The 23^{rd} Nordic Conference of Computational Linguistics, Reykjavik, Iceland.

 \bullet Reviewer for the 16th CDIO International Conference.

• Committee member of the *Undergraduate Studies Council*, Department of Computer Science, Reykjavik University.

• Selection Committee member for the Department of Computer Science, Reykjavik University.

• Committee member of the advisory group Career paths and promotions for teachers, Reykjavik University.

• Ethical Committee member, Reykjavik University.

• Committee member of the advisory group *Teaching*, research and governance, Reykjavik University.

• Executive Committee Member of the Northern European Association of Language Technology.

• Program Director of the Master Programme in Artificial Intelligence and Language Technology, Reykjavik University.

• Selection Committee member of *Hvatningarverðlaun viðskiptalífsins um eftirtektaverða* notkun á íslenskri tungu, a contest regarding noteworthy use of Icelandic in the business sector.

- Chair of the workshop "Að nota íslensku í tölvum og tækjum" [Using Icelandic in computers and devices], organized by "Vísindafélag Íslendinga" [Societas Scientiarum Islandica].
- Chair of the workshop "Databases and machine translation", organized by the European Language Resource Coordination (ELRC) and the Vigdís Finnbogadóttir institute.
- \bullet Program Committee member of NoDaLiDa 2019 The 22nd Nordic Conference of Computational Linguistics, Turku, Finland.
- Board member of Almannarómur a non-profit organization whose purpose is to promote the development of Language Technology tools for the Icelandic language.
- Chairman of the board of the Icelandic Language Technology Fund.

Spring 2023

Spring 2023

Summer 2022

Spring 2022 2021-2022

2021-2022

2020 - 2021

Spring 2020 2020-

2019-2020

2019-2020

2019-Fall 2019

Fall 2019-Present

2018-Present

Nov 2018

Nov. 3, 2018

Sept. 28, 2018

Fall 2019-Spring 2019

2018-2019

2015

SERVICES (continued)

Fall 2014-Fall 2018 Fall 2014

Fall 2014 Fall 2014

Fall 2014

Spring 2013-Spring 2014

Spring 2013-Spring 2014

Spring 2013

Spring 2013

Fall 2012

Fall 2012

Summer 2012

Spring 2012-Spring 2014 Spring 2012

Spring 2012

Spring 2012

Fall 2011-Spring 2013 Spring 2011

Fall 2010

Spring 2010-Spring 2012 Spring 2010

Spring 2010

Fall 2009-Summer 2010

Fall 2009

Spring 2009 Fall 2007-Fall 2011

Spring 2006 Fall 2005-Present Fall 2002-Spring 2004 Fall 2001-Fall 2003

Spring 2001 Fall 2000

- Board member of the National and University Library of Iceland.
- Chairman of Committee appointed by the Icelandic Ministry of Education, Science and Culture for proposing actions and plans for supporting Icelandic Language Technology.
- Reviewer for University of Iceland Research Fund.
- Program Committee member of the 3^{rd} Workshop on NLP in Computer-Assisted Language Learning, $SLTC\ 2014-5^{th}$ Swedish Language Technology Conference, Uppsala, Sweden.
- Reviewer for *Orð og tunga* (an Icelandic Journal).
- Program Committee member and Local Organizing Committee member of LREC 2014, Reykjavik, Iceland.
- Member of a committee developing a new master program in Business Information Management in collaboration with Advania.
- Program Committee member of Workshop on Computational Historical Linguistics, NoDa-LiDa 2013 – The 19th Nordic Conference of Computational Linguistics, Oslo, Norway.
- Program Committee member and Organizer of 2nd Workshop on NLP for Computer-Assisted Language Learning, NoDaLiDa 2013 – The 19th Nordic Conference of Computational Linguistics, Oslo, Norway.
- Reviewer for NKG "Nýsköpunarkeppni grunnskólanemenda" [Innovation contest in elementary schools], http://www.nkg.is/, Revkjavik, Iceland.
- Program Committee member of Workshop on NLP in Computer-Assisted Language Learning, SLTC 2012 4th Swedish Language Technology Conference, Lund, Sweden.
- Program Committee member of JapTAL 2012 8th International Conference on Natural Language Processing, Kanazawa, Japan.
- Editorial Board Member of the Northern European Journal of Language Technology.
- Reviewer for *Gripla* (an Icelandic Journal).
- Program Committee member of *FreeRBMT12* Third International Workshop on Free/Open-Source Rule-Based Machine Translation, Gothenburg, Sweden.
- Program Committee member of SaLTMiL-AfLaT Workshop on "Language technology for normalisation of less-resourced languages", LREC 2012, Istanbul, Turkey.
- Member of the Research Council at the School of Computer Science, Reykjavik University.
- Program Committee member of *NoDaLiDa 2011* The 18th Nordic Conference of Computational Linguistics, Riga, Latvia.
- Program Committee member of *FreeRBMT11* Second International Workshop on Free/Open-Source Rule-Based Machine Translation, Barcelona, Spain.
- Member of the Curriculum Council at Reykjavik University.
- Selection Committee member of *Ordid.is*, a contest regarding inventive use of the Morphological Database of Icelandic Inflections.
- \bullet Program Committee member of 7^{th} SaLTMiL Workshop on "Creation and use of basic lexical resources for less-resourced languages", LREC 2010, Valetta, Malta.
- Program Committee Chair and Organizer of *IceTAL 2010 7th* International Conference on Natural Language Processing, Revkjavik, Iceland.
- Program Committee member of FreeRBMT09 First International Workshop on Free/Open-Source Rule-Based Machine Translation, Alicante, Spain.
- Reviewer for the National Science Foundation, USA.
- Chairman of the *Undergraduate Studies Council* at the School of Computer Science, Reykjavik University.
- Reviewer for the Journal of Natural Language Engineering.
- Board member of The Icelandic Centre for Language Technology.
- Chairman of the board of Reykjavik University Netlab.
- Committee member of the The Educational Committee of the Icelandic Association of Computer Scientists.
- Reviewer for Rannis The Icelandic Research Council.
- Reviewer for Rannis The Icelandic Research Council.

DEMOS/POSTERS

- 09/2010 A web service for machine translation from Icelandic to English Demo.
 - Researchers' Night Science festival. Reykjavik, Iceland.
- 09/2009 Analysing Icelandic text and translating to English Demo.
 - Researchers' Night Science festival. Reykjavik, Iceland.
- 10/2007 IceNLP: A Natural Language Processing Toolkit for Icelandic Demo.
 - Artificial Intelligence Festival, Reykjavik, Iceland.
- 10/2006 Shallow parsing of Icelandic text Demo.
 - Swedish Language Technology Conference, Gothenburg, Sweden.
- 04/2006 Shallow parsing of Icelandic text Demo.
 - Artificial Intelligence Festival, Reykjavik, Iceland.

ACTIVITIES AND OUTREACH

- Fall 2012 Research visit to University of Gothenburg, Sweden. October 6^{th} December 1^{st} .
- Fall 2010 Erasmus teacher exchange visit to University of Applied Sciences, Darmstadt, Germany. November 10-13
- Fall 2009 Erasmus teacher exchange visit to University of Applied Sciences, Darmstadt, Germany. November 26-29
- Spring 2009 Research visit to University of Pennsylvania, USA. March 19-27.
- Spring 2009 Research visit to University of Alicante, Spain. February 2-18.

INVITED TALKS

- Er mörkun íslensku leyst vandamál? [Is Part-of-Speech Tagging of Icelandic solved?]. Rástefnan Máltæknibyltingin [Conference: The Language Technology Revolution]. Reykjavik, Iceland.
- Sjálfvirk samantekt íslensks texta [Automatic Summarization of Icelandic Texts]. Er íslenska góður "business"? [Is Icelandic good business?]. Reykjavik, Iceland.
- Cross-platform mobile app development with Xamarin a success story. Go Digital Conference. Reykjavik, Iceland.
- 02/2013 The Raven flies [Hrafninn flýgur]. Science Coffee, Reykjavík University. Reykjavík, Iceland.
- 02/2013 Language Technology is important. The UT2013 conference (UTmessa). Reykjavik, Iceland.
- Icelandic Language Technology and my current research projects. Högre seminarium i dator-lingvistik, Uppsala Universitet. Uppsala, Sweden.
- Ongoing development of an NLP toolkit with potential usage in ICALL. SLTC Workshop: NLP for computer-assisted language learning. Lund, Sweden.
- Intelligent CALL and writing support for second-language learners of Icelandic. Arbeidsseminar om IT-undervisning i Nordens språk. Lund, Sweden.
- Icelandic Language Technology and current BLARK components. Gothenburg's CLT workshop. Gullmarsstrand, Sweden.
- 08/2012 Changing the traditional lecture method. Teaching Day at Reykjavik University. Reykjavik, Iceland.
- Tagging Icelandic: The development of recent years. Seminar series: The Icelandic Centre for Language Technology. Reykjavik, Iceland.

INVITED TALKS (continued)

- $\textbf{03/2011} \qquad \textbf{\bullet Tagging and correcting a new gold standard for Icelandic.} \ \textit{Hugv\'isinda} \textit{ping 2011}. \ \textit{Reykjavik, Iceland}.$
- Shallow-transfer machine translation. *Hugvisindaping 2009*. Reykjavik, Iceland.
- Correcting a PoS-tagged corpus using three complementary methods. Seminar series: The Icelandic Centre for Language Technology. Reykjavik, Iceland.
- Tagging Icelandic text: An experiment with integrations and combinations of taggers. Seminar series: The Icelandic Centre for Language Technology. Reykjavik, Iceland.
- Shallow parsing of Icelandic text. The Rask conference, Reykjavik, Iceland.
- Shallow parsing of Icelandic text. The Icelandic Language Technology conference, Reykjavik, Iceland.
- A linguistic rule-based tagger for Icelandic. The Icelandic Language Technology conference, Reykjavik, Iceland.
- Does education shape the future or does the future shape education? Skýrslutæknifélag conference, "Is the future now?", Reykjavik, Iceland.
- 03/2003 Women and Computer Science. The UT2003 conference, Akureyri, Iceland.
- International Perspective of Women and Computer Science. The SIGCSE 2003 conference, Nevada, USA.
- Computer Science education in Reykjavik University Looking ahead. The UT2002 conference, Reykjavik, Iceland.