

Inga Rún Helgadóttir

Education

- 2015–2016 **Free-standing courses at the University of Iceland.**
E.g. in bioinformatics, computer science, systems biology and statistical data mining.
- 2014–2015 **PhD studies in Systems Biology, University of Iceland, Iceland.**
I left my studies after 16 months.
advisor: Valur Emilsson
- 2011–2013 **M.Sc. in Physics, Lund University, Sweden.**
advisor: Monika Wielers
- 2007–2010 **B.Sc. in Physics, University of Iceland, Iceland.**

Master thesis

- title *Search for same-sign dilepton signatures with the ATLAS detector*
- supervisor Monika Wielers
- description The inclusive search for anomalous production of same charge lepton-pairs with the ATLAS detector at the LHC. I optimized the selection criteria for isolated electrons and muons and calculated the so-called "fake factors" and "fake factor" systematic uncertainties for the muon selection (kind of the contribution of background muons). Furthermore I extracted limits of the cross-section of new sources of isolated, same-sign leptons originating from the collision point.

Experience

Vocational

- 2016-present **Research Assistant, Reykjavik University, Reykjavik.**
Developing a speech recognizer for Althingi, the Icelandic parliament.
- spring 2018 **Supervisor, Reykjavik University.**
Supervisor in a master project in computer science: "Re-Scoring Word Lattices from Automatic Speech Recognition System Based on Manual Error Corrections".
- summer of **Research Assistant, The Icelandic Meteorology Office, Reykjavík.**
2010 Developing a code that uses satellite images to detect volcanic ash in the atmosphere, and the spreading of forest fires.
- summer of **Research Assistant, University of Iceland, Reykjavík.**
2009 Analyzing magnetic field data.

Miscellaneous

- 2015–2016 **Volunteer, The Icelandic Red Cross, Reykjavík.**
Helping kids with homework and helping refugees find housing and jobs.

Languages

- Icelandic Native.

English Fluent.

Swedish Good.

Computer skills

programming Bash (good), Python and R (OK), Matlab, C++, Perl and Java (basic)

writing LaTeX (Good)

OS Linux (Good)

Experienced with the command line, using Sed, Awk and perl one-liners, and writing shell scripts.

References

Will be given at request.

Publications

The ATLAS Collaboration. Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s} = 8$ TeV pp collisions using the ATLAS detector. *Journal of High Energy Physics*, 2015.

Inga Rún Helgadóttir, Róbert Kjaran, Anna Björk Nikulásdóttir, and Jón Guðnason. Building an ASR corpus using Althingi's parliamentary speeches. *Proc. Interspeech 2017*, pages 2163–2167, 2017.

Anna Björk Nikulásdóttir, Inga Rún Helgadóttir, Matthías Pétursson, and Jón Guðnason. Open ASR for Icelandic: Resources and a Baseline System. In *LREC*, 2018.