

Katri Hiovain  
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Phonetics and Speech Synthesis  
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## Employment

### Visiting scholar

Department of Digital Humanities  
University of Helsinki  
Finland  
3 Apr 2024 → 3 Jul 2025

### Phonetics and Speech Synthesis

University of Helsinki  
HELSINGIN YLIOPISTO, Finland  
1 Jan 2017 → present

## Research outputs

### North Sámi Dialect Identification with Self-supervised Speech Models

Kakouros, S. & Hiovain-Asikainen, K., Aug 2023, *Proceedings of the 24th INTERSPEECH Conference*. Baixas: ISCA - International Speech Communication Association, p. 5306-5310 5 p. (Interspeech).

### Prosodic change and majority language influence in spoken North Sámi varieties

Hiovain-Asikainen, K., 2023, Helsinki: Helsingin yliopisto.

### The bouba/kiki effect is robust across cultures and writing systems

Cwiek, A., Fuchs, S., Draxler, C., Asu, E. L., Dediu, D., Hiovain, K., Kawahara, S., Koutalidis, S., Krifka, M., Lippus, P., Lupyan, G., Oh, G. E., Paul, J., Petrone, C., Ridouane, R., Reiter, S., Schumchen, N., Szalontai, A., Unal-Logacev, O. & Zeller, J. & 2 others, Perlman, M. & Winter, B., 3 Jan 2022, In: *Philosophical Transactions of the Royal Society. Biological Sciences*. 377, 1841, 13 p.

### Comparative analysis of majority language influence on North Sámi prosody using WaveNet-based modeling

Hiovain, K., Suni, A., Kakouros, S. & Šimko, J., 2022, In: *Language and Speech*. 65, 4, p. 859-888 30 p., 0023830920983591.

### Novel vocalizations are understood across cultures

Ćwiek, A., Fuchs, S., Draxler, C., Asu, E. L., Dediu, D., Hiovain, K., Kawahara, S., Koutalidis, S., Krifka, M., Lippus, P., Lupyan, G., Oh, G. E., Paul, J., Petrone, C., Ridouane, R., Reiter, S., Schümchen, N., Szalontai, Á., Ünal-Logacev, Ö. & Zeller, J. & 2 others, Winter, B. & Perlman, M., 12 May 2021, In: *Scientific Reports*. 11, 1, 12 p., 10108.

### The phonetic realization of quantity in North Sámi disyllabics

Hiovain, K. & Šimko, J., 18 Feb 2021, (Submitted) In: *Journal of Phonetics*.

### The role of duration and pitch in signaling quantity in Finnmark North Sámi

Hiovain, K., Asikainen, A. & Šimko, J., 25 May 2020, *Proceedings of 10th International Conference on Speech Prosody 2020, Tokyo, Japan*. Baixas: ISCA, p. 71-75 5 p. (Speech prosody).

### Dialectal variation of duration patterns in Finnmark North Sámi quantity

Hiovain, K., Šimko, J. & Vainio, M., Apr 2020, In: *Journal of the Acoustical Society of America*. 147, 4, p. 2817–2828 12 p.

### **Dialect Identification of Spoken North Sámi Language Varieties Using Prosodic Features**

Kakouros, S., Hiovain, K., Vainio, M. & Šimko, J., 2020, *Proceedings of 10th International Conference on Speech Prosody 2020: Communicative and Interactive Prosody*. Baixas: ISCA, p. 625-629 5 p. (Speech prosody).

### **Reproduction of Estonian Quantity Patterns by Non-Native Speakers**

Polsterer, K. & Hiovain, K., 2020, In: *Grazer Linguistische Studien*. 92, p. 45-84 40 p.

### **Duration Patterns in Finnmark North Sámi Quantity**

Hiovain, K. & Šimko, J., 2019, *Proceedings of the 19th International Congress of Phonetic Sciences, Melbourne, Australia 2019*. Calhoun, S., Escudero, P., Tabain, M. & Warren, P. (eds.). Canberra: Australasian Speech Science and Technology Association Inc., p. 1560-1564 5 p.

### **Comparing North Sámi dialectal variability using hierarchical modeling of prosody**

Hiovain, K., Simko, J., Suni, A. S. & Vainio, M. T., Oct 2018.

### **Mumbling through a wall: Clustering Slavic dialects using hierarchical statistical modeling of prosody**

Simko, J., von Waldenfels, R., Daniel, M., Dobrushina, N., Rabus, A., Suni, A. S., Hiovain, K. & Vainio, M. T., Oct 2018.

### **Mapping areal variation and majority language influence in North Sámi using hierarchical prosodic analysis**

Hiovain, K., Suni, A. S., Simko, J. & Vainio, M. T., 16 Jun 2018, *Proceedings of the 9th International Conference on Speech Prosody 2018*. Klessa, K., Bachan, J., Wagner, A., Karpiński, M. & Śledziński, D. (eds.). International Speech Communications Association, p. 577-581 5 p. (SProSIG).

### **Comparing languages using hierarchical prosodic analysis**

Simko, J., Suni, A., Hiovain, K. & Vainio, M., 2017, *Proceedings of Interspeech 2017, Stockholm, Sweden*. Baixas: ISCA, p. 1213-1217 5 p. (Interspeech).

### **Acoustic Features of Different Types of Laughter in North Sami Conversational Speech**

Hiovain, K. & Jokinen, P. K., 2016, *Proceedings of the LREC Workshop Just talking – casual talk among humans and machines, Portorož, Slovenia, 2016*. Calzolari, N., Choukri, K., Declerck, T., Goggi, S., Grobelnik, M., Maegaard, B., Mariani, J., Mazo, H., Moreno, A., Odijk, J. & Piperidis, S. (eds.). Portorož: European Language Resources Association (ELRA), p. 16-20 5 p.

### **DigiSami and Digital Natives: Interaction Technology for the North Sami Language**

Jokinen, K., Hiovain, K., Laxström, N., Rauhala, I. & Wilcock, G., 2016, *Dialogues with Social Robots: Enablements, Analyses, and Evaluation*. Jokinen, K. & Wilcock, G. (eds.). Singapore: Springer, p. 3-19 17 p. (Lecture Notes in Electrical Engineering; no. 427).

### **Low-Resource Active Learning of Morphological Segmentation**

Grönroos, S.-A., Hiovain, K., Smit, P., Rauhala, I. E., Jokinen, P. K., Kurimo, M. & Virpioja, S. P., 2016, In: *Northern European Journal of Language Technology*. 4, p. 47-72 26 p., 4.

### **Low-Resource Active Learning of North Sámi Morphological Segmentation**

Grönroos, S.-A., Jokinen, K., Hiovain, K., Kurimo, M. & Virpioja, S., 2015, *International Workshop on Computational Linguistics for Uralic Languages*.

## **Activities**

### **Kielentutkimuksen tohtorikoulutusverkosto Langnetin Joulukoulu 2020**

Hiovain, K. (Attendee)

16 Dec 2020 → 17 Dec 2020

**Langnetin joulukoulu**

Hiovain, K. (Speaker)

16 Dec 2020 → 17 Dec 2020

**the International Congress of Phonetic Sciences ICPHS 2019**

Hiovain, K. (Speaker: Presenter)

5 Aug 2019 → 9 Aug 2019

**Kielentutkimuksen tohtorihjelman (HELSLANG) kesäkonferenssi**

Hiovain, K. (Attendee)

27 May 2019

**Digihum development day**

Hiovain, K. (Participant)

29 Mar 2019

**Fonetiikan päivät 2019**

Hiovain, K. (Speaker)

22 Mar 2019

**3rd Workshop on Uralic Prosody**

Hiovain, K. (Speaker)

21 Mar 2019

**Research assessment panel**

Hiovain, K. (Participant)

13 Mar 2019

**Kielten kandiohjelman opetuksen digiloikka -hankkeen MOOC-suunnittelutyöpaja**

Lennes, M. (Chair of organizing committee), Toivola, M. (Attendee), Kittilä, S. T. (Attendee), ランシサルミリーツカ ( リイツカ ) (Attendee), Vainio, M. T. (Attendee), Virkkunen, P. J. (Attendee), Hiovain, K. (Attendee), Haavisto, A. R. (Attendee), Kallunki, V. A. J. (Member of organizing committee) & Pernaa, J. I. S. (Speaker: Presenter)

7 Nov 2018

**Experimental and Theoretical Advances in Prosody (ETAP) 4: Sociolectal and dialectal variability in prosody**

Hiovain, K. (Speaker)

11 Oct 2018 → 13 Oct 2018

**6th Estonian Digital Humanities Conference**

Hiovain, K. (Speaker: Presenter)

27 Sept 2018

**Sámi University of Applied Sciences**

Hiovain, K. (Visiting researcher)

17 Sept 2018 → 21 Sept 2018

**Tarton yliopisto**

Hiovain, K. (Visiting researcher)

15 Sept 2018 → 15 Oct 2018

**Speech prosody 2018**

Hiovain, K. (Poster Presentation)

13 Jun 2018 → 16 Jun 2018

### **Kielentutkimuksen tohtorihjelman (HELSLANG) kesäkonferenssi**

Hiovain, K. (Speaker)

24 May 2018 → 25 May 2018

### **XLV Kielitieteen päivät / XLV Språkvetenskapsdagarna / XLV Finnish Conference of Linguistics**

Hiovain, K. (Speaker: Presenter)

7 May 2018 → 9 May 2018

### **Suullinen seminaariesitelmä**

Hiovain, K. (Speaker)

27 Apr 2018

### **Second workshop on Uralic prosody**

Hiovain, K. (Speaker: Presenter)

28 Sept 2017 → 29 Sept 2017

### **Interspeech 2017**

Hiovain, K. (Attendee)

20 Aug 2017 → 24 Aug 2017

### **Second International Workshop on the HISTORY OF SPEECH COMMUNICATION RESEARCH — HSCR 2017**

Hiovain, K. (Member of organizing committee)

18 Aug 2017 → 19 Aug 2017

### **Seventh International Workshop on Spoken Dialogue System (IWSDS 2016)**

Hiovain, K. (Member of organizing committee) & Hiovain, K. (Speaker: Presenter)

12 Jan 2016 → 17 Jan 2016

### **The Second International Winter School in Finno-Ugric Studies in Szeged**

Hiovain, K. (Attendee)

19 Jan 2014 → 1 Feb 2014

## **Prizes**

### **Pro gradu -tutkielmapalkinto**

Hiovain, K. (Recipient), 2017

## **Press/Media**

### **Saamenkielinen haastattelu Yle Sápmissa liittyen väitöstutkimukseen**

Hiovain, K.

25/01/2018

1 item of Media coverage