

Viveka Lyberg Åhlander  
Speech and Language Pathology  
Minority Research  
Solutions for Health  
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## Biography

Min forskning rör sig kring skolan ur olika perspektiv men med grunden i kommunikation och skolans ljudmiljö. Viktiga aspekter är talarkomfort: lärarens möjlighet att göra sig hörd genom tillräckligt god ljudmiljö (akustik och bakgrunds-/aktivitetsljud) och med en fungerande röst och kommunikation (röstbelastning, röstkvalitet, ickeverbal kommunikation) och lyssnaransträngning (listening effort); barnens eventuella ansträngning vid perception av det talade och språkförståelse i relation till barnets kognitiva kapacitet. Den interventionsforskning som jag bedriver i skola rör utbildning av lärare och effekterna på lärarnas och barnens välbefinnande och barnens språkliga kapacitet.

## Employment

### Professor

Speech and Language Pathology  
Åbo Akademi University  
1 Aug 2019 → 31 Jul 2025

### Minority Research

Åbo Akademi University  
1 Aug 2019 → present

### Solutions for Health

Åbo Akademi University  
1 Aug 2019 → present

## Publications

### Röststörningar - teoretisk översikt

Lyberg Åhlander, V., Södersten, M. & Rydell, R., 1 Aug 2024, *Grundbok i Logopedi*. Hartelius, L., Johansson, K., Levlin, M., Schalling, E. & Södersten, M. (eds.). Lund: Studentlitteratur, p. 393-411

### Event boundary perception in audio described films by people without sight

Johansson, R., Rastegar, T., Lyberg Åhlander, V. & Holsanova, J., 18 Jul 2024, In: *Applied Cognitive Psychology*. 38, 4, e4228.

### Professional voice use in health and nursing care - Time for reconsideration? A scoping review

Vaartio-Rajalin, H., Lyberg Åhlander, V. & Nyholm, L., 21 May 2024, (E-pub ahead of print) In: *Scandinavian Journal of Caring Sciences*. 38, 3, p. 550-567

### Sex differences in vocal behavior in virtual rooms compared to real rooms

Papadimitriou, G., Brunskog, J., Heuchel, F. M., Lyberg Åhlander, V. & Öhlund Wistbacka, G., 3 Apr 2024, In: *JASA express letters*. 4, 4, 045201.

### Making space for singing in the 21st century classroom – A focus group interview study with primary school music teachers in Sweden

Horwitz, E. B., Johnson, D. T., Lyberg-Åhlander, V., Sahlén, B., Laukka, P. & Bygdéus, P., 22 Dec 2023, In: *British Journal of Music Education*.

**Reducing Vocal Fatigue With Bone Conduction Devices: Comparing Forbrain and Sidetone Amplification**

Nudelman, C., Udd, D., Åhlander, V. L. & Bottalico, P., Nov 2023, In: Journal of Speech, Language, and Hearing Research. 66, 11, p. 4380-4397 18 p.

**A randomized controlled trial of the effectiveness of teacher continued professional development on student language outcomes**

Sandgren, O., Andersson, K., Lyberg Åhlander, V., Rosqvist, I., Hansson, K. & Sahlén, B., 15 Dec 2022, (E-pub ahead of print) In: International Journal of Language and Communication Disorders.

**Influence of Respiratory Tract Infections on Vocabulary Growth in Relation to Child's Sex: The STEPS Study**

Nylund, A., Toivonen, L., Korpilahti, P., Kaljonen, A., Lyberg Åhlander, V., Peltola, V. & Rautakoski, P., 23 Nov 2022, In: International Journal of Environmental Research and Public Health. 19, 23

**Enhancing teachers' classroom communication skills – Measuring the effect of a continued professional development programme for mainstream school teachers**

Andersson, K., Sandgren, O., Rosqvist, I., Lyberg Åhlander, V., Hansson, K. & Sahlén, B., Jun 2022, In: Child Language Teaching and Therapy. 38, 2, p. 166-179

**How older adults relate to their own voices: a qualitative study of subjective experiences of the aging voice**

Lindström, E., Öhlund Wistbacka, G., Lötvall, A., Rydell, R. & Lyberg Åhlander, V., 21 Apr 2022, (E-pub ahead of print) In: Logopedics Phoniatrics Vocology. p. 1-9 10 p.

**Teachers' descriptions of classroom communication after an SLP-led in-service training**

Karjalainen, S., Åhlander, V. L., Sahlén, B. & Houmann, A., 25 Feb 2022, In: Logopedics Phoniatrics Vocology.

**Word definition skills in elementary school children - The contribution of bilingualism, cognitive factors, and social factors**

Rosqvist, I., Andersson, K., Sandgren, O., Lyberg-Åhlander, V., Hansson, K. & Sahlén, B., 21 Nov 2021, (E-pub ahead of print) In: International Journal of Speech-Language Pathology. p. 1-11 12 p.

**Children's experiences of their learning environment: Psychometric properties of a questionnaire evaluating classroom environment, activities and interactions**

Brännström, K. J., Karjalainen, S., Sahlén, B., Andersson, K., Lyberg-Åhlander, V. & Christensson, J., 2021, (E-pub ahead of print) In: Child Language Teaching and Therapy.

**How the blind audience receive and experience audio descriptions of visual events – a project presentation**

Holsanova, J., Johansson, R. & Lyberg Åhlander, V., 4 Jul 2020, *Swiss Conference on Barrier-free Communication*.

**Children's development of semantic verbal fluency during summer vacation versus during formal schooling**

Rosqvist, I., Sandgren, O., Andersson, K., Hansson, K., Lyberg-Åhlander, V. & Sahlén, B., 2 Jul 2020, In: Logopedics Phoniatrics Vocology. p. –

**A Pilot Study on the Relationship between Primary-School Teachers' Well-Being and the Acoustics of their Classrooms**

Karjalainen, S., Brännström, J. K., Christensson, J., Sahlén, B. & Lyberg Åhlander, V., 2020, In: International Journal of Environmental Research and Public Health. 17, 6, p. – 2083.

**Audio-visual speech comprehension in noise with real and virtual speakers**

Nirme, J., Sahlén, B., Lyberg Åhlander, V., Brännström, J. & Haake, M., 2020, In: Speech Communication. 116, p. 44–55

**Editorial: Children Listen: Psychological and Linguistic Aspects of Listening Difficulties During Development**

Sahlén, B., Brännström, K. J., Lyberg Åhlander, V. & Rudner, M., 2020, In: Frontiers in Psychology.

**Perceived listening effort in children with hearing loss: listening to a dysphonic voice in quiet and in noise**

Brannstrom, K., Lyberg Åhlander, V. & Sahlén, B., 2020, In: Logopedics Phoniatrics Vocology. p. 1-9 9 p.

**Voice handicap index-throat: Translation and cross-cultural adaptation to Brazilian Portuguese.**

Veis Ribeiro, V., Wanderley Lopes, L., França da Silva, A. C., Medeiros Neto, A. H. D., Lyberg Åhlander, V., Schalen, L. & Behlau, M., 2020, In: Journal of Voice. p. –

**A virtual speaker in noisy classroom conditions: supporting or disrupting children's listening comprehension?**

Nirme, J., Haake, M., Lyberg Åhlander, V., Brännström, J. & Sahlén, B., 2019, In: Logopedics Phoniatrics Vocology. 44, 2, p. 79–86

**Implementation and evaluation of a teacher intervention program on classroom communication**

Karjalainen, S., Sahlén, B., Falck, A., Brännström, J. & Lyberg Åhlander, V., 2019, In: Logopedics Phoniatrics Vocology. p. – 13 p.

**Passage comprehension performance in children with cochlear implants and/or hearing aids: the effects of voice quality and multi-talker babble noise in relation to executive function**

Jonas Brännström, K., von Lochow, H., Lyberg Åhlander, V. & Sahlén, B., 2019, In: Logopedics Phoniatrics Vocology. 45, 1, p. 15–23

**Prevalence of Voice Disorders in the General Population, Based on the Stockholm Public Health Cohort**

Lyberg Åhlander, V., Rydell, R., Fredlund, P., Magnusson, C. & Wilén, S., 2019, In: Journal of Voice. 33, 6, p. 900–905 6 p.

**Spoken language and language impairment in DHH children: Towards better communication fostering classroom environments for mainstreamed children.**

Sahlén, B., Hansson, K., Lyberg Åhlander, V. & Brännström, J., 2019, *Evidence-based practices in deaf education*. Knoors, H. & Marschark, M. (eds.). Oxford University Press, p. –

**The Contribution of Bilingualism, Parental Education, and School Characteristics to Performance on the Clinical Evaluation of Language Fundamentals: Fourth Edition, Swedish.**

Andersson, K., Hansson, K., Rosqvist, I., Lyberg Åhlander, V., Sahlén, B. & Sandgren, O., 2019, In: Frontiers in Psychology. 10, p. –

**The influence of voice quality and multi-talker babble noise on sentence processing and recall performance in school children using cochlear implant and/or hearing aids**

Jonas Brännström, K., von Lochow, H., Lyberg Åhlander, V. & Sahlén, B., 2019, In: Logopedics Phoniatrics Vocology. 44, 2, p. 87–94 8 p.

**Absolute or relative voice rest after phonosurgery: a blind randomized prospective clinical trial**

Whitling, S., Lyberg Åhlander, V. & Rydell, R., 2018, In: Logopedics Phoniatrics Vocology. 43, 4, p. 143–154

**Immediate Passage Comprehension and Encoding of Information Into Long-Term Memory in Children With Normal Hearing: The Effect of Voice Quality and Multitalker Babble Noise**

Jonas Brännström, K., von Lochow, H., Lyberg Åhlander, V. & Sahlén, B., 2018, In: American Journal of Audiology. 27, 2, p. 231–237 7 p.

**Is children's listening effort in background noise influenced by the speaker's voice quality?**

Sahlén, B., Haake, M., von Lochow, H., Holm, L., Kastberg, T., Jonas Brännström, K. & Lyberg Åhlander, V., 2018, In: Logopedics Phoniatrics Vocology. 43, 2, p. 47–55 9 p.

**Listening Comprehension and Listening Effort in the Primary School Classroom**

Rudner, M., Lyberg Åhlander, V., Brännström, J., Nirme, J., K. Pichora-Fuller, M. & Sahlén, B., 2018, In: Frontiers in Psychology. 9, p. – 7 p.

**The effect of voice quality and competing speakers in a passage comprehension task: perceived effort in relation to cognitive functioning and performance in children with normal hearing**

von Lochow, H., Lyberg Åhlander, V., Sahlén, B., Kastberg, T. & Jonas Brännström, K., 2018, In: Logopedics Phoniatrics Vocology. 43, 1, p. 32-41 9 p.

**The influence of voice quality on sentence processing and recall performance in school-age children with normal hearing**  
Brännström, K. J., Kastberg, T., von Lochow, H., Haake, M., Sahlén, B. & Lyberg-Åhlander, V., 2018, In: Speech, Language and Hearing. 21, 1, p. 1-9 9 p.

**Choral singing under the microscope : Identifying vocal leaders through comparison of individual recordings of the singers**  
Zadig, S., Folkestad, G. & Lyberg Åhlander, V., 2017, In: Finnish Journal of Music Education. 20, 1, p. 77-98

**Erratum to Design of a Clinical Vocal Loading Test With Long-Time Measurement of Voice [Journal of Voice, 2016; 29(2): 261.e13-261.e27]**

Whitling, S., Rydell, R. & Lyberg Åhlander, V., 2017, In: Journal of Voice. 31, 5, p. 643- 1 p.

**How Children Perceive the Acoustic Environment of Their School**

Jonas Brännström, K., Johansson, E., Vigertsson, D., Morris, D. J., Sahlén, B. & Lyberg Åhlander, V., 2017, In: Noise and Health. 19, 87, p. 84-94 11 p.

**Long-Time Voice Accumulation During Work, Leisure, and a Vocal Loading Task in Groups With Different Levels of Functional Voice Problems**

Whitling, S., Lyberg-Åhlander, V. & Rydell, R., 2017, In: Journal of Voice. 31, 2, p. 246.e1-246.e10

**Recovery From Heavy Vocal Loading in Women With Different Degrees of Functional Voice Problems**

Whitling, S., Lyberg Åhlander, V. & Rydell, R., 2017, In: Journal of Voice. 31, 5, p. 645.e1-645- 14 p.

**Körsångares erfarenhet av informellt ledarskap i körstämman**

Zadig, S., Lyberg Åhlander, V. & Folkestad, G., 2016, In: Svensk Tidskrift för Musikforskning. 98, p. 23-44

**Multi-track recordings of choral singers: Development and validation of a method to identify activities and interaction in the choral voice, based on recordings of the individual singers**

Zadig, S., Folkestad, G. & Lyberg Åhlander, V., 2016, In: Beiträge empirischer Musikpädagogik. 7, 1, p. 1-20

**Are children with stronger cognitive capacity more or less disturbed by classroom noise and dysphonic teachers?**

Lyberg-Åhlander, V., Holm, L., Kastberg, T., Haake, M., Brännström, K. J. & Sahlén, B., 2015, In: International Journal of Speech-Language Pathology. 17, 6, p. 577-588 12 p.

**Children's Subjective Ratings and Opinions of Typical and Dysphonic Voice After Performing a Language Comprehension Task in Background Noise**

Jonas Brännström, K., Holm, L., Lyberg Åhlander, V., Haake, M., Kastberg, T. & Sahlén, B., 2015, In: Journal of Voice. 29, 5, p. 624-630 7 p.

**Does the speaker's voice quality influence children's performance on a language comprehension test?**

Lyberg-Åhlander, V., Haake, M., Brännström, J., Schötz, S. & Sahlén, B., 2015, In: International Journal of Speech-Language Pathology. 17, 1, p. 63-73 11 p.

**On the interaction of speakers' voice quality, ambient noise and task complexity with children's listening comprehension and cognition**

Lyberg Åhlander, V., J. Brännström, K. & Sahlén, B. S., 2015, In: Frontiers in Physiology. 6, p. –

**Part summary of the project 'Speakers' Comfort': Teachers' voice use in teaching environments**

Lyberg Åhlander, V., Rydell, R., Löfqvist, A., Pelegrin-García, D. & Brunskog, J., 2015, In: Building Acoustics. 22, 3-4, p. 209-224

### **Psychotropic drug use in adolescents born with an orofacial cleft: a population-based study**

Nilsson, S., Merlo, J., Lyberg Åhlander, V. & Psouni, E., 2015, In: *BMJ Open*. 5, p. –

### **Teachers 'voice use in teaching environment: Aspects on speakers' comfort**

Lyberg Åhlander, V., Rydell, R., Löfqvist, A., Pelegrin-García, D. & Brunskog, J., 2015, In: *Energy Procedia*. 78, p. 3090–3095

### **Experiencing the role of PBL tutor**

Lyberg Åhlander, V., Lundskog, M. & Hansson, K., 2014, In: *Clinical Linguistics & Phonetics*. 28, 1-2, p. 36–46

### **Teachers' Voice Use in Teaching Environments: A Field Study Using Ambulatory Phonation Monitor**

Lyberg Åhlander, V., Pelegrin García, D., Whitting, S., Rydell, R. & Löfqvist, A., 2014, In: *Journal of Voice*. 28, 6, p. 841.e5– 11 p.

### **Pedagogen, rösten och ljudmiljön**

Lyberg Åhlander, V., 2013, *Rösträtt: musik på barns villkor*. Holmberg, Y. (ed.). Gehrmans Musikförlag, p. 45–54

### **How Do Teachers With Self-Reported Voice Problems Differ From Their Peers With Self-Reported Voice Health?**

Lyberg Åhlander, V., Rydell, R. & Löfqvist, A., 2012, In: *Journal of Voice*. 26, 4, p. e149–e161 13 p.

### **Measurement and prediction of voice support and room gain in school classrooms**

Pelegrin-Garcia, D., Brunskog, J., Lyberg-Åhlander, V. & Löfqvist, A., 2012, In: *Journal of the Acoustical Society of America*. 131, p. 194–204 11 p.

### **Speaker's Comfort in Teaching Environments: Voice Problems in Swedish Teaching Staff**

Lyberg Åhlander, V., Rydell, R. & Löfqvist, A., 2011, In: *Journal of Voice*. 25, 4, p. 430–440 11 p.

### **Influence of classroom acoustics on the voice levels of teachers with and without voice problems: A field study**

Pelegrin-Garcia, D., Lyberg Åhlander, V., Rydell, R., Brunskog, J. & Löfqvist, A., 2010, *Proceedings of Meetings on Acoustics*. Acoustical Society of America, p. –

### **Throat related symptoms and voice: development of an instrument for self assessment of throat-problems**

Lyberg Åhlander, V., Rydell, R., Eriksson, J. & Schalén, L., 2010, In: *BMC Ear, Nose and Throat Disorders*. 10, p. –

### **Automatic speech recognition (ASR) and its use as a tool for assessment or therapy of voice, speech, and language disorders**

Kitzing, P., Maier, A. & Lyberg Åhlander, V., 2009, In: *Logopedics Phoniatrics Vocology*. 34, 2, p. 91–96 6 p.

### **Hoarseness as a Sign of Possible Nonspecific Mucosal Hyperreactivity in Vocal Tract**

Lyberg Åhlander, V., Malm, L. & Schalén, L., 2009, In: *Journal of Voice*. 23, 6, p. 707–715

## **Activities**

### **Ordkonstnätverket vid Åbo Akademi**

Heilä-Ylikallio, R. (Organiser), Nynäs, P. (Organiser), Österlund, M. (Organiser), Jusslin, S. (Organiser), Lyberg Åhlander, V. (Organiser) & Lundell, S. (Organiser)  
23 Apr 2024

### **Kapitelworkshop för nordiska forskare, författare och redaktörer om vad ordkonst är och kan vara**

Heilä-Ylikallio, R. (Organiser), Jusslin, S. (Organiser), Österlund, M. (Organiser), Lyberg Åhlander, V. (Organiser) & Höglund, H. (Organiser)  
14 Mar 2024 → 15 Mar 2024

**Finska röstergonomisällskapet**  
Lyberg Åhlander, V. (Organiser)  
1 Dec 2023

#### **Medicinsk Humaniora**

Lyberg Åhlander, V. (Organiser), Nilsson, F. (Organiser), Slotte, Å. (Organiser), Marander-Eklund, L. (Organiser) & Karrasch, M. (Organiser)  
27 Oct 2023

#### **Nätverksseminarium**

Heilä-Ylikallio, R. (Organiser), Österlund, M. (Organiser) & Lyberg Åhlander, V. (Organiser)  
15 Sept 2023

#### **Forum Acusticum**

Lyberg Åhlander, V. (Organiser), Cansu, N. (Participant), Lindström, E. (Participant), Heikkola, L. M. (Participant) & Öhlund Wistbacka, G. (Participant)  
12 Sept 2023

#### **TEACHERS' VOICE USE AND WELLBEING IN RELATION TO THE CLASSROOM ACOUSTICS AND BACKGROUND NOISE**

Lyberg Åhlander, V. (Speaker)  
12 Sept 2023

#### **Logopedics Phoniatics Vocology (Journal)**

Lyberg Åhlander, V. (Editor in chief)  
1 Jan 2023 → 31 Dec 2023

#### **Ingrid Verduyckt**

Lyberg Åhlander, V. (Host)  
2 Oct 2022 → 7 Oct 2022

#### **Logopedics Phoniatics Vocology (Journal)**

Lyberg Åhlander, V. (Editor)  
2010

### **Prizes**

#### **Harry Elvins legat**

Lyberg Åhlander, V. (Recipient), 8 Sept 2022

#### **Honorary member of the Finnish Voice Ergonomic Society**

Lyberg Åhlander, V. (Recipient), 2020

#### **Studenternas ros**

Lyberg Åhlander, V. (Recipient), 2020

### **Awards**

#### **Sjung för språkets skull! Strukturerad sång på svenska i skolan. Effekter på barns språk, röst och välbefinnande**

Lyberg Åhlander, V. (PI)  
Svenska kulturfonden: €80,000.00  
15/05/24 → 14/05/25

### **Viveka Lyberg Åhlander Curriculum Vitae**

2021	Lorem ipsum dolor sit amet
2020	Lorem ipsum dolor sit amet
2019	Lorem ipsum dolor sit amet
2018	Lorem ipsum dolor sit amet
2017	Lorem ipsum dolor sit amet
2016	Lorem ipsum dolor sit amet