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Research

My research moves around the school from different perspectives but with the foundation of communication and the school's sound environment. Key aspects are speech comfort: the ability of the teacher to be heard through sufficient sound environment (acoustics and background / activity sounds) and with effective voice and communication (voice load, voice quality, nonverbal communication) and listening effort: the child's potential effort in perception of the spoken and language understanding in relation to the child's cognitive capacity. Our intervention research in schools concerns teacher training and the effects on the well-being of teachers and children and the linguistic capacity of the children.

Employment

Lecturer, Supervisor

Logopedics, Phoniatics and Audiology
Lund University
Lund, Sweden
2015 Sept 21 → present

Research project participant

Communication and Cognition
Lund University
Lund, Sweden
2016 Aug 10 → present

Research project participant

The voice group
Lund University
Lund, Sweden
2016 Aug 10 → present

Lecturer

EpiHealth: Epidemiology for Health
Lund University
Malmö, Sweden
2011 Jan 1 → present

Professor

Åbo Akademi University
Åbo (Turku), Finland
2019 Aug 1 → present

Logoped

Ystad Hospital
Ystad, Sweden
1991 Jul 1 → 1994 Nov 1

Research outputs

Bedömning av barns orddefinitioner: möjligheter och utmaningar i klinik och forskning. Rapport från pågående projekt
Rosqvist, I., Grenner, E., Andersson, K., Sandgren, O., Lyberg Åhlander, V., Hansson, K. & Sahlén, B., 2024 Nov 15.

Word definition skills in the early school years

Rosqvist, I., Hansson, K., Andersson, K., Sandgren, O., Lyberg Åhlander, V., Grenner, E. & Sahlén, B., 2024 Sept 12.

Success factors and pitfalls for language and communication focused Continuing Professional Development (CPD) programs for teachers

Rosqvist, I., Hansson, K., Andersson, K., Sandgren, O., Lyberg Åhlander, V., Carlie, J., Karjalainen, S. & Sahlén, B., 2024 Sept 11.

Word definition skills in Swedish children with a history of SLP contact. An exploratory study

Rosqvist, I., Sandgren, O., Grenner, E., Andersson, K. & Lyberg Åhlander, V., 2024 Sept 11.

Event boundary perception in audio described films by people without sight

Johansson, R., Rastegar, T., Lyberg Åhlander, V. & Holsanova, J., 2024 Jul 28, In: Applied Cognitive Psychology. 38, 4, 12 p., e4228.

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., 2024 Apr 1, In: JASA Express Letters. 4, 4, 045201.

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

Vaartio-Rajalin, H., Lyberg Åhlander, V. & Nyholm, L., 2024, In: Scandinavian Journal of Caring Sciences. 38, 3, p. 550-567

The Influence of Narrative Specificity and Voice Quality when Listening to Audio Descriptions: a Comparison of the Sighted and the Blind

Lyberg Åhlander, V., Holsanova, J. & Johansson, R., 2024, (Accepted/In press) In: Journal of Audiovisual Translation.

The Influence of Narrative Specificity and Voice Quality when Listening to Audio Descriptions: a Comparison of the Sighted and the Blind

Lyberg Åhlander, V., Holsanova, J. & Johansson, R., 2023 Nov 5, PsyArXiv, 37 p.

Event boundary perception among the visually impaired in audio described films

Johansson, R., Rastegar, T., Lyberg Åhlander, V. & Holsanova, J., 2023 Oct 24, (E-pub ahead of print) *PsyArXiv*, 33 p.

Spatiotemporal description of events in AD: the role of cognitive aspects and voice quality

Johansson, R., Holsanova, J., Lyberg Åhlander, V., Sombeck, E. & Rastegar, T., 2023 Apr 20, p. 15-17. 3 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., 2023, In: *International Journal of Language & Communication Disorders*. 58, 3, p. 879-891 13 p.

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., 2023, In: *Logopedics Phoniatrics Vocology*. 48, 4, p. 163-171

NOISE AND ROOM ACOUSTICS - RISK FACTORS FOR VOICE DISORDERS AMONG MUSIC THERAPISTS?

Heikkola, L. M. & Åhlander, V. L., 2023, *Proceedings of Forum Acusticum 2023 - 10th Convention of the European Acoustics Association, EAA 2023*. European Acoustics Association, EAA

SELF-PERCEIVED VOCAL HEALTH AND SOCIAL PARTICIPATION AMONG OLDER ADULTS

Lindström, E., Wistbacka, G. Ö., Sahlén, B. & Åhlander, V. L., 2023, *Proceedings of Forum Acusticum 2023 - 10th Convention of the European Acoustics Association, EAA 2023*. European Acoustics Association, EAA

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

Karjalainen, S., Lyberg Åhlander, V., Sahlén, B. & Houmann, A., 2023, In: *Logopedics Phoniatrics Vocology*. 48, 3, p. 137-145

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

Karjalainen, S., Sahlén, B., Christensson, J., Jonas, B. K. & Lyberg-Åhlander, V., 2023, *Proceedings of Forum Acusticum 2023 : 10th Convention of the European Acoustics Association, EAA 2023*. European Acoustics Association, EAA

VOICE LEVELS IN SIMULATED ROOM ACOUSTIC ENVIRONMENTS. SEX AND AGE DIFFERENCES

Wistbacka, G. Ö., Heuchel, F. M., Åhlander, V. L., Sahlén, B., Rydell, R., Mårtensson, J. & Brunskog, J., 2023, *Forum Acusticum 2023 - 10th Convention of the European Acoustics Association, EAA 2023*. European Acoustics Association, EAA, (Proceedings of Forum Acusticum).

A Professional Development program targeting language supporting techniques: An evaluation of the effects on teachers and their students

Rosqvist, I., Sandgren, O., Andersson, K., Lyberg Åhlander, V., Hansson, K. & Sahlén, B., 2022 Sept 21.

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., 2022, In: *Child Language Teaching and Therapy*. 38, 1, p. 59-77

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., 2022, In: *Child Language Teaching and Therapy*. 38, 2, p. 166-179

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

Brännström, K. J., Lyberg-Åhlander, V. & Sahlén, B., 2022, In: *Logopedics Phoniatrics Vocology*. 47, 1, p. 1-9

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., 2022, In: International Journal of Speech-Language Pathology. 24, 6, p. 596-606

How the blind audience receive and experience audio descriptions of visual events – a project presentation
Holsanova, J., Johansson, R. & Lyberg Åhlander, V., 2020 Jul 3, p. 39-41. 3 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 Mar 21, In: International Journal of Environmental Research and Public Health. 17, 6, 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
12 p.

Children Listen: Psychological and Linguistic Aspects of Listening Difficulties During Development
Sahlén, B., Brännström, J., Lyberg Åhlander, V. & Rudner, M., 2020, In: Frontiers in Psychology. 11, 584034.

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., 2020, In: Logopedics Phoniatrics Vocology. 45, 3, p. 134-142 9 p.

Implementation and evaluation of a teacher intervention program on classroom communication
Karjalainen, S., Sahlén, B., Falck, A., Brännström, J. & Lyberg Åhlander, V., 2020, In: Logopedics Phoniatrics Vocology. 45, 3, p. 110-122 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
Brännström, K. J., von Lochow, H., Lyberg Åhlander, V. & Sahlén, B., 2020, In: Logopedics Phoniatrics Vocology. 45, 1, p. 15-23 9 p.

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 Nov, In: Journal of Voice. 33, 6, p. 900-905 6 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., Åhlander, V. L., Sahlén, B. & Sandgren, O., 2019 Jul 17, In: Frontiers in Psychology. 10, 1586.

Development of semantic verbal fluency and narrative ability during summer vacation versus formal schooling
Rosqvist, I., Andersson, K., Hansson, K., Lyberg Åhlander, V., Sandgren, O. & Sahlén, B., 2019 Apr 24.

Impact of language background and school factors on core language skills
Andersson, K., Hansson, K., Rosqvist, I., Lyberg Åhlander, V., Sahlén, B. & Sandgren, O., 2019 Apr 24.

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

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

Whitling, S., Lyberg-Åhlander, V. & Rydell, R., 2018 Oct 2, In: *Logopedics Phoniatrics Vocology*. 43, 4, p. 143-154

Listening comprehension and listening effort in the primary school classroom

Rudner, M., Lyberg-Åhlander, V., Brännström, J., Nirme, J., Pichora-Fuller, M. K. & Sahlén, B., 2018 Jul 12, In: *Frontiers in Psychology*. 9, JUN, 1193.

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

Brännström, K. J., von Lochow, H., Åhlander, V. L. & Sahlén, B., 2018 Jun 1, 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., Brännström, J. & Lyberg-Åhlander, V., 2018, In: *Logopedics Phoniatrics Vocology*. 43, 2, p. 47-55

Spoken Language and Language Impairment in Deaf and Hard-of-Hearing Children: Fostering Classroom Environments for Mainstreamed Children

Sahlén, B., Hansson, K., Lyberg Åhlander, V. & Brännström, J., 2018, *Cover Evidence-Based Practices in Deaf Education*. Knoors, H. & Marshark, M. (eds.). Oxford University Press, p. 1-21

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

von Lochow, H., Lyberg-Åhlander, V., Sahlén, B., Kastberg, T. & Brännström, J., 2018, In: *Logopedics Phoniatrics Vocology*. 43, 1, p. 11-19 9 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. & Brännström, K. J., 2018, In: *Logopedics Phoniatrics Vocology*. 43, 1, p. 32-41

The influence of voice quality on sentence processing and recall performance in school-age children with normal hearing

Brännström, J., Kastberg, T., von Lochow, H., Haake, M., Sahlén, B. & Lyberg-Åhlander, V., 2018, In: *Speech, Language and Hearing*. 21, 1, p. 1-9

How Children Perceive the Acoustic Environment of Their School

Brännström, J., Johansson, E., Vigertsson, D., Morris, A. D., Sahlén, B. & Lyberg-Åhlander, V., 2017 Mar 1, In: *Noise and Health*. 19, 87, p. 84-94 11 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, FJME 01 2017, p. 77-98 22 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.e14

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 Dec, In: *Bulletin of empirical music education research*. 7, 1, p. 1-20

Körsångares erfarenhet av informellt ledarskap i körstämman

Zadig, S., Lyberg Åhlander, V. & Folkestad, G., 2016, In: Svensk tidskrift för musikforskning STM-SJM. 98, 3, p. 23-44

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 Dec 1, In: Building Acoustics. 22, 3-4, p. 209-224 16 p.

Teachers' voice use in teaching environment. Aspects on speakers' comfort

Lyberg-Åhlander, V., Rydell, R., Löfqvist, A., Pelegrin-García, D. & Brunskog, J., 2015 Nov 1, In: Energy Procedia. 78, p. 3090-3095 6 p.

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, J. & Sahlén, B., 2015, In: International Journal of Speech-Language Pathology. 17, 6, p. 577-588

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

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

Design of a Clinical Vocal Loading Test With Long-Time Measurement of Voice.

Whitling, S., Rydell, R. & Lyberg Åhlander, V., 2015, In: Journal of Voice. 29, 2, p. 261.e13

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

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

Lyberg Åhlander, V., Brännström, J. & Sahlén, B., 2015, In: Frontiers in Psychology. 6, 871.

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, 4, e005306.

Experiencing the role of PBL tutor.

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

How does the teacher's voice and background noise in the classroom affect children's comprehension and learning

Lyberg Åhlander, V., Haake, M., Brännström, J., Schötz, S. & Sahlén, B., 2014.

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

Lyberg Åhlander, V., Pelegrín García, D., Whitling, S., Rydell, R. & Löfqvist, A., 2014, In: Journal of Voice. 28, 6, p. 841.e5

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

Spelar logopedens röst roll för barns språkförståelse

Lyberg Åhlander, V., Haake, M., Brännström, J., Schötz, S., Johansson, M. & Sahlén, B., 2012.

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, p. 430-440

Voice use in teaching environments: Speakers' comfort

Lyberg Åhlander, V., 2011, Lund University. 178 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 May 27, In: BMC Ear, Nose and Throat Disorders. 10, 5.

Influence of classroom acoustics on the voice levels of teachers with and without voice problems

Pelegrin-Garcia, D., Lyberg Åhlander, V., Rydell, R., Brunskog, J. & Löfqvist, A., 2010, *Proceedings of Meetings on Acoustics*. Acoustical Society of America, Vol. 11. 9 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. p. 1-6

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, p. 707-715

Studenters utveckling av generella kompetenser genom PBL: tankar kring tutors interventioner

Hansson, K., Lyberg Åhlander, V. & Lundskog, M., 2009, *Proceedings Utvecklingskonferens Lunds universitet 2009*. Sonesson, A. & Amné, G. (eds.). Lednings- och kompetensutveckling/CED, p. 61-61 1 p.

Projects

ADACOM: Audio description for accessible communication/ Syntolkning för tillgänglig kommunikation

Holsanova, J. (Project coordinator), Johansson, R. (Researcher), Lyberg Åhlander, V. (Researcher), Lindgren, M. (Researcher) & Mårtensson, J. (Researcher)
2019/01/01 → 2024/06/30

AVaCO: Artistic Vocal and Choral Order(s) - ASG, Pufendorf IAS

Geisler, U. (Project coordinator), Johansson, K. (Researcher), Lyberg Åhlander, V. (Researcher), Wilén, S. (Researcher) & Zadig, S. (Researcher)
2014/08/14 → 2015/08/14

Better communication and learning in the classroom. A study on the effects of a teacher in-service training in pupils' every day sound environments.

Karjalainen, S. (Research student), Lyberg Åhlander, V. (Supervisor), Sahlén, B. (Assistant supervisor), Houmann, A. (Assistant supervisor) & Brännström, J. (Assistant supervisor)
2016/09/01 → ...

Better communication and learning in the classroom. Measuring the effect of teacher training on children's language skills.

Rosqvist, I. (Research student), Hansson, K. (Supervisor), Sahlén, B. (Supervisor), Andersson, K. (Researcher), Sandgren, O. (Researcher) & Lyberg Åhlander, V. (Researcher)
2017/08/15 → 2024/05/31

Communication, a challenge for the older employee: Need for a communication supporting workplace

Lyberg Åhlander, V. (PI), Rydell, R. (Researcher), Wiegert, P. (Research student), Brunskog, J. (Researcher), Sahlén, B. (Researcher) & Mårtensson, J. (Researcher)
Swedish Council for Working Life and Social Research (Forte)
2019/07/01 → 2021/12/31

SKOL: Effective Language learning interactions in the classroom. A randomized controlled trial targeting teachers and children

Sahlén, B. (Researcher), Sandgren, O. (Researcher), Hansson, K. (Researcher), Lyberg Åhlander, V. (Researcher), Andersson, K. (Researcher) & Rosqvist, I. (Researcher)

Skolforskningsinstitutet
2017/01/01 → 2020/12/31

How the blind audience receive and experience audio descriptions of visual events

Holsanova, J. (PI), Johansson, R. (PI) & Lyberg Åhlander, V. (Researcher)
Swedish Council for Working Life and Social Research (Forte)
2019/12/01 → 2021/12/31

How the blind audience receive and experience audio descriptions of visual events

Johansson, R. (Researcher), Holsanova, J. (Researcher) & Lyberg Åhlander, V. (Researcher)
2019/01/01 → 2023/12/31

Improving Diagnosis for Children with Communicative Disorders – Digital TROG-2

Haake, M. (Researcher), Gulz, A. (PI), Hansson, K. (Researcher), Lyberg Åhlander, V. (Researcher) & Sahlén, B. (Researcher)
2009/01/01 → 2012/12/31

Påverkan av icke- verbala faktorer och omgivningsfaktorer på barns förståelse

Haake, M. (Researcher), Gullberg, M. (Researcher), Gulz, A. (PI), Nirme, J. (Researcher), Brännström, J. (Researcher), Lyberg Åhlander, V. (Researcher) & Sahlén, B. (Researcher)
2014/01/01 → 2019/12/31

Speakers' Comfort and Vocal Health in Teaching Environment

Lyberg Åhlander, V. (Research student), Brunskog, J. (PI), Rydell, R. (Researcher), Löfqvist, A. (Researcher) & Whitling, S. (Research student)
2008/02/01 → 2016/12/31

Teaching and learning in diverse and noisy class-rooms: Taking knowledge from the lab to implementation in teacher education

Sahlén, B. (PI), Lyberg Åhlander, V. (Researcher), Brännström, J. (Researcher), Nirme, J. (Researcher), Karjalainen, S. (Researcher), Houmann, A. (Researcher) & Falk, A. (Researcher)
Stiftelsen Marcus och Amalia Wallenbergs Minnesfond
2016/12/15 → 2020/03/30

Vocal loading and vocal recovery

Lyberg Åhlander, V. (Assistant supervisor), Rydell, R. (Supervisor) & Whitling, S. (Research student)
2012/08/01 → 2016/12/31