

Personal information

Kuusinen, Antti, D. Sc. (Tech.)

Researcher identifiers: ORCID: [0000-0002-8106-0421](https://orcid.org/0000-0002-8106-0421); Researcher ID: [E-8301-2012](https://orcid.org/E-8301-2012)

LinkedIn: fi.linkedin.com/in/anttikuusinen; Homepage: anttikuusinen.github.io/

Education and degrees completed

- 14/09/2016 Doctor of Science (Technology) in Acoustics, Aalto University School of Science, Department of Computer Science, Espoo, Finland; Contact: Aalto University, P.O. Box 11000 (Otakaari 1B) FI-00076 AALTO (tel. +358 9 47001)
- 23/01/2012 Master of Science (Technology) in Communications Engineering, Aalto University School of Electrical Engineering, Espoo, Finland

Current employment

- 1/10/2017- Postdoctoral researcher (Stage II in research career model), Department of Signal Processing and Acoustics, Aalto University Electrical Engineering, Finland

Previous employment

- 1/10/2016 - 1/9/2017 Acoustics Expert, A-Insinöörit Suunnittelu Oy
- 2009 - 2016 Project researcher / Doctoral student, Department of Computer Science, Aalto University School of Science, Finland
- June 2015 Research visit to Nantes Atlantic College of Veterinary Medicine, Food Science and Engineering (OnIris), France

Career breaks

- 1/1/2018 - 31/7/2018 Parental leave (7 months)

Research output: Journal articles

- **Kuusinen, A.**, E. Saariniemi, V. Sivonen, A. Dietz, A. Aarnisalo and T. Lokki, (2020) "An exploratory investigation of speech recognition thresholds in noise with auralizations of two reverberant rooms, *International Journal of Audiology*, DOI: 10.1080/14992027.2020.1817993
- Lokki, T., L. McLeod, and **Kuusinen, A.**, (2020, In press). "Perception of loudness and envelopment for different orchestral dynamics," *Journal of the Acoustical Society of America*, vol. 148
- **Kuusinen, A.**, and T. Lokki, (2020). "Recognizing individual concert halls is difficult when listening to the acoustics with different musical passages," *Journal of the Acoustical Society of America*, vol. 148, no. 3, pp. 1380-1390.
- **Kuusinen, A.**, and T. Lokki, (2017) "Wheel of Concert Hall Acoustics", *Acta Acustica united with Acustica*, 103(2), 185-188.
- Séménou, M., Ph. Courcoux, **A. Kuusinen** and T. Lokki, (2017). "Segmentation of subjects in multivariate paired comparisons. Application to the preference for concert halls acoustics", *Food Quality and Preference*, 62, 120-127.
- **Kuusinen, A.**, and T. Lokki, (2015). "Investigation of auditory distance perception and preferences in concert halls by using virtual acoustics", *The Journal of the Acoustical Society of America*, 138(5):3148-3159.
- **Kuusinen, A.**, J. Pätynen, S. Tervo, and T. Lokki, (2014) "Relationships between preference ratings, sensory profiles and acoustical measurements in concert halls", *The Journal of the Acoustical Society of America*, 135(1):239-251.
- Tervo S., J. Pätynen, **A. Kuusinen**, and T. Lokki, (2013) "Spatial decomposition method for room impulse responses", *Journal of the Audio Engineering Society*, 61(1/2):17-18.
- Lokki, T., J. Pätynen, **A. Kuusinen**, and S. Tervo. (2012) "Disentangling preference ratings of concert hall acoustics using subjective sensory profiles", *The Journal of the Acoustical Society of America*, 132(5):3148-3161, 2012.
- Lokki, T., J. Pätynen, **A. Kuusinen**, H. Vertanen, and S. Tervo. (2011) "Concert hall acoustics assessment with individually elicited attributes", *The Journal of the Acoustical Society of America*, 130:835-849.

Research output: Book chapters and popularization of research

- **Kuusinen, A.**, and T. Lokki, (2019). "Concert hall acoustics", In *Sensory evaluation of sound*, Editor: N. Zacharov, CRC Publishing, 389-410
- **Kuusinen, A.**, (2019) "Virtuell akustik ger nya metoder för hörselundersökning (eng. New methods for hearing diagnostics with virtual acoustics)", Vi Hörs, Svenska Hörsselförbundet 4:2019, 22–23

Research output: Conference articles

- **Kuusinen, A.**, and T. Lokki, (2015) On studying auditory distance perception in concert halls with multichannel auralizations, In *Proceedings of the 18th International Conference on Digital Audio Effects, DAFX-15*, Trondheim, Norway.
- **Kuusinen, A.**, and T. Lokki. (2015) "Auditory distance perception in concert halls and the origins of acoustic intimacy". [INVITED PAPER] In *Proceedings of the 9th International Conference on Auditorium Acoustics*, Paris, 29-31.10.
- **Kuusinen, A.**, (2014), "An anechoic audio corpus for room acoustics and related studies", In *Proceedings of EAA Joint Symposium on Auralization and Ambisonics*, Berlin, Germany.
- **Kuusinen, A.**, H. Vertanen and T. Lokki, (2010) Assessor Selection and Behavior in Individual Vocabulary Profiling of Concert Hall Acoustics, In *Proceedings of the 38th International Conference of Audio Engineering Society on Sound Quality Evaluation*, Pitea, Sweden, June Paper 7-1.

Research supervision

2020 Supervision of master thesis, Zuzanna Dlugosz, 2019 Supervision of two bachelor theses, Aalto University School of Science

Teaching experience

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| 2018-2020 | Aalto University - ELEC-C5340 Applied Signal Processing: Responsible Teacher |
| 2020 | Theatre Academy - The Basics of Sound -course; Responsible Teacher |
| 2014-2016 | Aalto University - T-75.4900: Havaitseminen (Perception): Visiting lecturer |

Pedagogical training

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| 2020 | Aalto pedagogical training: Breakdowns and Breakthroughs in Communication (2 cr) |
| 2020 | PED-131.2310 Teaching practice (5 cr) |
| 2019 | PED-131.9000 Assessment for and of learning (3 cr) |
| 2018 | PED-131.2100 Teaching at Aalto University I: Learning and Teaching in university (5 cr) |
| 2016 | PED-131.2210 Teaching at Aalto University II: Course design (5 cr) |
| 2015 | PED-131.1000 A! Peda Intro (5 cr) |

Projects

Member of the ERC project [grant nr. 203636]: Physically-based Virtual Acoustics
Member of the Academy of Finland project [grant no. 257099]: Concert hall acoustics - From sensory profiles to new objective criteria.

Scholarships and awards

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| 2015 & 2016 | Finnish Foundation of Technology Promotion Scholarships (2x) |
| 2015 | Emil Aaltonen's Foundation Scholarship |
| 2013 | Int. Symp. on Room Acoustics (ISRA), Toronto 2013, Best student paper award |

Referee positions

Journal of Acoustical Society of America (JASA); Acta Acustica united with Acustica; ACM Transactions on Applied Perception; Journal of Audio Engineering Society (AES)

Professional memberships

Acoustical Society of Finland