

Philipp Aichinger

Curriculum Vitae

Medical University of Vienna
Department of Otorhinolaryngology
Division of Phoniatics-Logopedics
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Personal information

Born on January 23, 1983 in Vienna, Austria
Citizenship Austria
Permanent contact Zentagasse 37/25, 1050 Vienna, Austria

Education

2012–2015 **Doctoral Degree**, GRAZ UNIVERSITY OF TECHNOLOGY, Medical Voice Assessment/Signal Processing and Speech Communication.
With distinction
2003–2009 **Master's Degree**, UNIVERSITY OF MUSIC AND DRAMATIC ARTS GRAZ, Electrical Engineering/Sound Engineering.
With distinction
1997–2002 **High School Degree**, HTL WIEN DONAUSTADT, Electrical Engineering/Telecommunications, Vienna.

Awards

June 2016 **Elsevier outstanding reviewer award.**
May 2013 **Result of the month award**, *Double Pitch Marks in Diplophonic Voice*, Signal Processing and Speech Communication Lab, Graz University of Technology.

Work experience

2010–Present **University Assistant**, MEDICAL UNIVERSITY OF VIENNA, Department of Otorhinolaryngology, Division of Phoniatics-Logopedics.
2011–2012 **Freelance Researcher**, PÄDAGOGISCHE HOCHSCHULE WIEN.
2010 **Freelance Researcher**, AUSTRIAN ACADEMY OF SCIENCES, Acoustic Research Institute.

Research Interests

Voice disorders, Clinical studies, Signal processing, Medical acoustics, Psychoacoustics

Journal papers (peer-reviewed)

- 9 **Aichinger P**, Schoentgen J, Pernkopf F. Detection of extra pulses in synthesized glottal area waveforms of dysphonic voices. *Biomedical Signal Processing and Control*, 2019;50:158-167. doi:10.1016/j.bspc.2019.01.007.
- 8 **Aichinger P**, Schoentgen J. Detection of diplophonation in audio recordings of German standard text readings. *Journal of Voice*, doi:10.1016/j.jvoice.2018.06.009.
- 7 **Aichinger P**, Hagmüller M, Roesner I, Schneider-Stickler B, Schoentgen J, Pernkopf F. Tracking of Multiple Fundamental Frequencies in Diplophonic Voices. *IEEE Transactions on Audio, Speech, and Language Processing*, 2018;26(2):330-341. doi:10.1109/TASLP.2017.2761233.
- 6 **Aichinger P**, Roesner I, Schneider-Stickler B, Leonhard M, Denk-Linnert DM, Bigenzahn W, Fuchs AK, Hagmüller M, Kubin G. Towards Objective Voice Assessment: The Diplophonia Diagram. *Journal of Voice*, 2017;31(2):253.e17-253.e26.
- 5 **Aichinger P**, Roesner I, Leonhard M, Schneider-Stickler B, Denk-Linnert DM, Bigenzahn W, Fuchs AK, Hagmüller M, Kubin G. Comparison of an audio-based and a video-based approach for detecting diplophonia. *Biomedical Signal Processing and Control*, 2017;31:576-585.
- 4 **Aichinger P**, Hagmüller M, Roesner I, Schneider-Stickler B, Schoentgen J, Pernkopf F. Fundamental frequency tracking in diplophonic voices. *Biomedical Signal Processing and Control*, 2017;37:69-81. doi:10.1016/j.bspc.2016.10.002.
- 3 **Aichinger P**, Hagmüller M, Roesner I, Bigenzahn W, Schneider-Stickler B, Schoentgen J. Diplophonia disturbs jitter and shimmer measurement. *Folia Phoniatica et Logopaedica*, 2016;68:22-28. doi:10.1159/000447589.
- 2 Schenk F, **Aichinger P**, Roesner I, Urschler M. Automatic high-speed video glottis segmentation using salient regions and 3D geodesic active contours. *Annals of the British Machine Vision Association*, 2015;2015(1):1-15.
- 1 **Aichinger P**, Feichter F, Aichstill B, Bigenzahn W, Schneider-Stickler B. Inter-device reliability of DSI measurement. *Logopedics Phoniatrics Vocology*, 2012;37(4):167-173.

Letters to the editor

- 1 **Aichinger P**, Kubin G. Re: Gaskill CS, Awan JA, Watts CR, Awan SN. Acoustic and perceptual classification of within-sample normal, intermittently dysphonic, and consistently dysphonic voice types. *J Voice*. 2016;31:218-228. *Journal of Voice*, 2018;32(3):381-382, doi:10.1016/j.jvoice.2017.05.023.

Research grants (principal investigator)

- 2018-2022 **Aichinger P**. Objective differentiation of dysphonic voice quality types. *Austrian Science Fund (FWF) - Programme Clinical Research*, KLI722-B30, ~403k € granted.
- 2018 **Aichinger P**. Diplophonia in vocal fold replica experiments. *Austrian Science Fund (FWF) - Stand-Alone Project*, ~256k €, submitted.

Patents

- 2017 **Aichinger P.** Medical detector and method for extra pulse detection. *European patent*, application filed, Nr. EP17207133.4.

Doctoral thesis

- 2015 **Aichinger P.** Diplophonic Voice - Definitions, models, and detection. *Graz University of Technology, Austria*.

Master's thesis

- 2009 **Aichinger P.** Investigation of psychoacoustic principles for automatic mixdown algorithms. *University of Music and Performing Arts Graz, Austria*.

Conference papers (peer-reviewed)

- 12 **Aichinger P**, Roesner I, Schoentgen J, Pernkopf F. Modelling and detection of random extra glottal pulses during quasi-closed phases. *Proceedings of the 10th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, 2017, 5 pages.
- 11 **Aichinger P**, Fuchs AK, Schneider-Stickler B, Schoentgen J, Hagmüller M. Acoustic waveform model based detection of diplophonia for clinical application. *Proceedings of the 7th Congress on Sound and Vibration*, 2016, 8 pages.
- 10 **Aichinger P**, Roesner I, Leonhard M, Denk-Linnert DM, Bigenzahn W, Schneider-Stickler B. A database of laryngeal high-speed videos with simultaneous high-quality audio recordings of pathological and non-pathological voices. *Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC)*, 2016;10:767-770.
- 9 **Aichinger P**, Fuchs AK. Diplophonie - Definitionen, Modelle und Detektion. *Fortschritte der Akustik 2016 (42. Jahrestagung für Akustik DAGA)*, 2016;42:1-4.
- 8 **Aichinger P**, Hagmüller M, Roesner I, Bigenzahn W, Schneider-Stickler B, Schoentgen J, Pernkopf F. Measurement of fundamental frequencies in diplophonic voices. *Proceedings of the 9th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, 2015;9:21-24.
- 7 **Aichinger P**, Schneider-Stickler B, Bigenzahn W, Hagmüller M, Sontacchi A, Schoentgen J. Assessment and psychoacoustic modeling of auditory streams in diplophonic voice. *Proceedings of the 9th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, 2015;9:135-138.
- 6 Schoentgen J, **Aichinger P**. Synthetic kymograms and glottal area waveforms in simulated non-neutral phonation. *Proceedings of the 9th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, 2015;9:75-78.
- 5 Schoentgen J, **Aichinger P**. Glottal area patterns in numerically simulated diplophonia. *Proceedings of the 18th International Congress of Phonetic Sciences*, 2015, 4 pages.

- 4 Schenk F, Urschler M, Aigner C, Roesner I, **Aichinger P**, Bischof H. Automatic glottis segmentation from laryngeal high-speed videos using 3D active contours. *Medical Image Understanding and Analysis*, 2014;18:111-116.
- 3 **Aichinger P**, Roesner I, Schneider-Stickler B, Bigenzahn W, Feichter F, Fuchs AK, Hagmüller M, Kubin G. Spectral Analysis of Laryngeal High-Speed Videos: Case Studies on Diplophonic and Euphonic Phonation. *Proceedings of the 8th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, 2013;8:81-84.
- 2 **Aichinger P**, Schneider-Stickler B, Bigenzahn W, Fuchs AK, Geiger B, Hagmüller M, Kubin G. Double pitch marks in diplophonic voice. *IEEE International Conference on Acoustics, Speech, and Signal Processing*, 2013;38:7437-7441.
- 1 **Aichinger P**, Sontacchi A, Schneider-Stickler B. Describing the Transparency of Mixdowns: The Masked-to-Unmasked-Ratio. *130th Audio Engineering Society Convention*, 2011;130.

--- Oral presentations

- 47 **Aichinger P**. Medical diagnosis aided by automatic classification: Non-blackbox approaches for clinical voice assessment. *Colloquium of the Technical Faculty, Kiel University*, May 6, 2019, Kiel, Germany.
- 46 **Aichinger P**. Project plan and pilot data of FWF KLI722-B30 - Objective differentiation of dysphonic voice quality types. *Viennese Seminar on Voice Quality Research*, November 7, 2018, Vienna, Austria.
- 45 **Aichinger P**, Schoentgen J. Detection of Diplophonia in Audio Recordings of German Standard Text Readings with Automatic Temporal Segmentation. *47th Annual Symposium of The Voice Foundation: Care of the Professional Voice*, June 2, 2018, Philadelphia, USA.
- 44 **Aichinger P**, Roesner I, Schoentgen J, Pernkopf F. Modelling and detection of random extra glottal pulses during quasi-closed phases. *10th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, December 15, 2017, Florence, Italy.
- 43 **Aichinger P**, Roesner I, Schneider-Stickler B, Leonhard M, Denk-Linnert DM, Bigenzahn W, Fuchs AK, Hagmüller M, Kubin G. Towards Objective Voice Assessment: The Diplophonia Diagram. *46th Annual Symposium of The Voice Foundation: Care of the Professional Voice*, June 3, 2017, Philadelphia, USA.
- 42 **Aichinger P**. Diplophonic Voice - Definitions, models, and detection. *GIPSA-lab (Grenoble Images Parole Signal Automatique)*, May 18, 2017, Grenoble, France.
- 41 **Aichinger P**, Fuchs AK, Schneider-Stickler B, Schoentgen J, Hagmüller M. Acoustic waveform model based detection of diplophonia for clinical application. *7th AAAA Congress on Sound and Vibration*, September 22, 2016, Ljubljana, Slovenia.
- 40 **Aichinger P**, Hagmüller M, Fuchs AK, Denk-Linnert DM, Bigenzahn W, Schoentgen J, Schneider-Stickler B. Akustische Detektion von Diplophonie. *60. Österreichischer HNO-Kongress*, September 17, 2016, Villach, Austria.

- 39 **Aichinger P.** Diplophonic Voice - Definitions, models, and detection. *University of California, Los Angeles (UCLA), School of Medicine, Department of Head and Neck Surgery*, July 27, 2016, Los Angeles, USA.
- 38 Fuchs AK, **Aichinger P.** Diplophonie - Definitionen, Modelle und Detektion. 42. *Jahrestagung für Akustik (DAGA)*, March 16, 2016, Aachen, Germany.
- 37 **Aichinger P.** Diplophonic Voice - Definitions, models, and detection. *Austrian Academy of Sciences, Acoustics Research Institute (ARI)*, November 5, 2015, Vienna, Austria.
- 36 **Aichinger P.**, Schneider-Stickler, B, Bigenzahn, W, Hagmüller, M, Sontacchi, A, Schoentgen, J. Assessment and psychoacoustic modeling of auditory streams in diplophonic voice. *9th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, September 4, 2015, Florence, Italy.
- 35 Schoentgen J, **Aichinger P.** Synthetic kymograms and glottal area waveforms in simulated non-neutral phonation. *9th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, September 3, 2015, Florence, Italy.
- 34 **Aichinger P.**, Hagmüller M, Roesner I, Bigenzahn W, Schneider-Stickler B, Schoentgen J, Pernkopf F. Measurement of fundamental frequencies in diplophonic voices. *9th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, September 2, 2015, Florence, Italy.
- 33 **Aichinger P.**, Hagmüller M, Roesner I, Bigenzahn W, Schneider-Stickler B, Schoentgen J. Differentiating diplophonia from other types of severe dysphonia by acoustic analysis. *11th Pan-European Voice Conference*, August 31, 2015, Florence, Italy.
- 32 Schoentgen J, **Aichinger P.** Glottal area patterns in numerically simulated diplophonia. *18th International Congress of Phonetic Sciences*, August 11, 2015, Glasgow, Scotland UK.
- 31 **Aichinger P.** Auswertungen bei Diplophonie. 12. *Wiener Fortbildungskurs "Praxis der Stimmdiagnostik"*, June 26, 2015, Vienna, Austria.
- 30 Schneider-Stickler B, Kneisz L, Roesner I, Leonhard M, Kögl S, **Aichinger P.**, Denk-Linnert DM, Bigenzahn W. Value of laryngeal EMG in clinical ENT routine. *3rd Congress of European ORL-HNS*, June 7-11, 2015, Prague, Czech Republic.
- 29 **Aichinger P.** Diplophonic Voice - Definitions, models, and detection. *1st MIC - Image Computing, Analysis and Visualization Meet-Up*, May 21, 2015, Vienna, Austria.
- 28 Schneider-Stickler B, Kneisz L, Roesner I, Leonhard M, Kögl S, **Aichinger P.**, Denk-Linnert DM, Bigenzahn W. Value of laryngeal EMG in clinical ENT routine. *14. Jahrestagung der Deutschen Akademie für HNO-Heilkunde, Kopf- und Hals-Chirurgie e. V.*, May 14-16, 2015, Berlin, Germany.
- 27 **Aichinger P.** Akustische Stimmklanganalysen. *Fortbildungskurs für Phoniatrie und Pädaudiologie*, April 22, 2015, Salzburg, Austria.

- 26 Schoentgen, J, **Aichinger P**. Glottal Area Waveforms and Kymograms in Numerically Simulated Diplophonia. *11th International Conference on Advances in Quantitative Laryngology, Voice and Speech Research*, April 9, 2015, London, United Kingdom.
- 25 Schneider-Stickler B, Siebenhaar A, Jagersberger T, **Aichinger P**. Zur Intonationsgenauigkeit bei Solosängern in Abhängigkeit von Ausbildungsstufe und Klavierbegleitung. *Fit on Stage (ÖGfMM Symposium)*, March 21, 2015, Vienna, Austria.
- 24 **Aichinger P**. Diplophonic Voice - Definitions, models, and detection. *PhD-Defense, Graz University of Technology*, January 7, 2015, Graz, Austria.
- 23 **Aichinger P**. Empirical Mode Decomposition. *Scientific Seminar III*, April 30, 2014, Vienna, Austria.
- 22 **Aichinger P**, Roesner I, Schneider-Stickler B, Leonhard M, Denk-Linnert DM, Bigenzahn W, Fuchs AK, Hagmüller M, Kubin G. Objective Voice Assessment: The Diplophonia Diagram. *Scientific Seminar III*, April 30, 2014, Vienna, Austria.
- 21 **Aichinger P**, Roesner I, Leonhard M, Schneider-Stickler B, Denk-Linnert DM, Bigenzahn W, Fuchs AK, Hagmüller M, Kubin G. Comparison of an Audio-Based and a Video-Based Approach for Detecting Diplophonia. *Scientific Seminar III*, April 30, 2014, Vienna, Austria.
- 20 **Aichinger P**. Theorie und Praxis des DSI. 11. *Wiener Fortbildungskurs "Praxis der Stimmdiagnostik"*, March 29, 2014, Vienna, Austria.
- 19 **Aichinger P**. Aufnahmebedingungen für Hörversuche. 11. *Wiener Fortbildungskurs "Praxis der Stimmdiagnostik"*, March 28, 2014, Vienna, Austria.
- 18 **Aichinger P**. Pathologische Phonetik. *Vertiefende Methodenlehrveranstaltung, University of Vienna*, January 30, 2014, Vienna, Austria.
- 17 **Aichinger P**, Roesner I, Schneider-Stickler B, Bigenzahn W, Feichter F, Fuchs AK, Hagmüller M, Kubin G. Spectral Analysis of Laryngeal High-Speed Videos: Case Studies on Diplophonic and Euphonic Phonation. *8th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, December 16, 2013, Marseille, France.
- 16 **Aichinger P**. Recent results from glottal area waveform modeling. *Scientific Seminar II*, October 30, 2013, Vienna, Austria.
- 15 **Aichinger P**. An Objective Method for the Detection of Diplophonia. *DissertantInnenseminar Informations- und Kommunikationstechnik*, April 10, 2013, Graz, Austria.
- 14 **Aichinger P**, Schneider-Stickler B, Bigenzahn W, Fuchs AK, Geiger B, Hagmüller M, Kubin G. Doppeltönigkeit in der Stimmdiagnostik. *Gesund Musizieren (ÖGfMM Symposium)*, March 23, 2013, Vienna, Austria.
- 13 **Aichinger P**. Auswertungen bei Diplophonie. 10. *Wiener Fortbildungskurs "Praxis der Stimmdiagnostik"*, February 22, 2013, Vienna, Austria.
- 12 **Aichinger P**. High Speed Observations of Diplophonic Voice. *Scientific Seminar I*, January 23, 2013, Vienna, Austria.

- 11 **Aichinger P**, Schneider-Stickler B, Bigenzahn W, Fuchs AK, Hagmüller M, Kubin G. A Glottal Area Waveform Model for Diplophonic Voice. *International Congress of the World Voice Consortium*, October 30, 2012, Luxor, Egypt.
- 10 **Aichinger P**. Towards the Need of Standardized Dysphonia Severity Index Measurement. *International Congress of the World Voice Consortium*, October 28, 2012, Luxor, Egypt.
- 9 **Aichinger P**. Multiparametrische Bewertung der Stimmleistung mit dem Dysphonia Severity Index. 9. *Wiener Fortbildungskurs "Praxis der Stimmdiagnostik"*, March 31, 2012, Vienna, Austria.
- 8 **Aichinger P**, Aichstill B, Feichter F, Schneider-Stickler B. Towards standardized DSI-measurement in clinical practice. *International AVFA (Advanced Voice Function Assessment) Workshop*, May 17, 2011, Frankfurt a/M., Germany.
- 7 **Aichinger P**, Sontacchi A, Schneider-Stickler B. Describing the Transparency of Mixdowns: The Masked-to-Unmasked-Ratio. *130th Audio Engineering Society Convention*, May 13, 2011, London, United Kingdom.
- 6 **Aichinger P**. Messtechnische Voraussetzungen für Stimmaufnahmen. *Fortbildungskurs für Phoniatrie und Pädaudiologie*, April 28, 2011, Salzburg, Austria.
- 5 **Aichinger P**, Jagersberger T, Feichter F, Schneider-Stickler B. Akustische Analyse der Intonationsgenauigkeit bei klassischen Sängern. *Gesund Musizieren (ÖGfMM Symposium)*, March 26, 2011, Vienna, Austria.
- 4 **Aichinger P**. Vibrato- und Intonationsmessungen. 14. *Vortrags- und Gesprächsrunde "Stimmerkrankungen bei Schauspielern und Sängern"*, November 6, 2010, Vienna, Austria.
- 3 **Aichinger P**. Ergebnisse der auditiven Stimmklangbeurteilung nach dem RBH Schema im Gruppenhörversuch. *Division of Phoniatrics-Logopedics, Department of Otorhinolaryngology, Medical University of Vienna*, September 29, 2010, Vienna, Austria.
- 2 **Aichinger P**. Messtechnische Voraussetzungen für Stimmaufnahmen. *Pädagogische Hochschule Wien*, September 24, 2010, Vienna, Austria.
- 1 **Aichinger P**. Akustische und aufnahmetechnische Grundlagen für objektive Stimmaufnahmen. *Division of Phoniatrics-Logopedics, Department of Otorhinolaryngology, Medical University of Vienna*, September 24, 2010, Vienna, Austria.

Poster presentations

- 13 **Aichinger P**, Bulusu S, Kumar P, Švec J. Extracting vocal fold kinematic parameters from videokymograms via simulation of clinically observed data. *2nd MIC Festival - Digital Revolution in Medical Imaging*, June 6, 2019, Medical University of Vienna, Austria.
- 12 **Aichinger P**, Roesner I, Pernkopf F, Schoentgen J. Glottal area waveform modeling based voice quality typing. *13th International Conference on Advances in Quantitative Laryngology, Voice and Speech Research (AQL)*, June 2-4, 2019, Montreal, Canada.

- 11 Schoentgen J, **Aichinger P**. Mesure et modélisation du jitter et scintillement vocal. *Huitièmes Journées de Phonétique Clinique*, May 14-16, 2019, Mons, Belgium.
- 10 **Aichinger P**, Roesner I, Schoentgen J. Auditory sensation of impulsivity and tonality in vocal fry. *177th Meeting of the Acoustical Society of America (ASA)*, May 13-17, 2019, Louisville, Kentucky, USA.
- 9 **Aichinger P**, Roesner I, Pernkopf F, Schoentgen J. Auditory Discrimination of Different Types of Sonified Synthesized Glottal Area Waveforms. *11th International Conference on Voice Physiology and Biomechanics (ICVPB)*, August 2, 2018, Michigan State University, East Lansing, USA.
- 8 **Aichinger P**, Roesner I, Leonhard M, Denk-Linnert DM, Bigenzahn W, Schneider-Stickler B. A Database of Laryngeal High-Speed Videos with Simultaneous High-Quality Audio Recordings of Pathological and Non-Pathological Voices. *10th International Conference of Language Resources and Evaluation (LREC)*, May 25, 2016, Portorož, Slovenia.
- 7 **Aichinger P**, Schneider-Stickler B, Hagmüller M. Terminology of voice phenomena related to diplophonia. *10th International Conference on Voice Physiology and Biomechanics (ICVPB)*, March 16, 2016, Viña del Mar, Chile.
- 6 **Aichinger P**, Schneider-Stickler B, Hagmüller M, Schoentgen J. Acoustic detection of diplophonia among other types of dysphonia. *10th International Conference on Voice Physiology and Biomechanics (ICVPB)*, March 16, 2016, Viña del Mar, Chile.
- 5 **Aichinger P**, Roesner I, Schneider-Stickler B, Leonhard M, Denk-Linnert DM, Bigenzahn W, Fuchs AK, Hagmüller M, Kubin G. Objective Voice Assessment: The Diplophonia Diagram. *43rd Annual Symposium of The Voice Foundation: Care of the Professional Voice*, May 29, 2014, Philadelphia, USA.
- 4 **Aichinger P**, Schneider-Stickler B, Bigenzahn W, Roesner I, Feichter F, Fuchs AK, Hagmüller M, Kubin G. Development of an Objective Method for the Detection of Diplophonia. *9th YSA PhD Symposium, Medical University of Vienna*, June 20, 2013, Vienna, Austria.
- 3 **Aichinger P**, Schneider-Stickler B, Bigenzahn W, Fuchs AK, Geiger B, Hagmüller M, Kubin G. Double pitch marks in diplophonic voice. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, May 29, 2013, Vancouver, Canada.
- 2 **Aichinger P**, Feichter F, Aichstill B, Bigenzahn W, Schneider-Stickler B. Inter-Device Reliability of Dysphonia Severity Index Measurement. *8th YSA PhD Symposium, Medical University of Vienna*, June 13, 2012, Vienna, Austria.
- 1 **Aichinger P**, Feichter F, Aichstill B, Bigenzahn W, Schneider-Stickler B. Validity and Inter-Device Reliability of DSI measurement. *9th Pan-European Voice Conference*, August 31, 2011, Marseille, France.

Organized scientific sessions

- September 2019 **Special session on "Voice quality characterization for clinical voice assessment: Voice production, acoustics, and auditory perception"**, *Graz, Austria*, with Abeer Alwan (UCLA), Carlo Drioli (University of Udine), Jody Kreiman (UCLA), and Jean Schoentgen (Université Libre de Bruxelles), within the ISCA Interspeech conference 2019.
- November 7, 2018 **Viennese Seminar on Voice Quality Research**, *Vienna, Austria*, with Jean Schoentgen (Université Libre de Bruxelles), Jan Švec & S. Pravin Kumar (Palacký University Olomouc), Stefan Kniesburges (Universitätsklinikum Erlangen), Annemie Van Hirtum & Xavier Pelorson (Université Grenoble Alpes), Carlo Drioli (University of Udine).
- April 30, 2014 **Scientific Seminar III**, *Vienna, Austria*, with: Wolfgang Bigenzahn (MedUni Vienna), Denis Dubrovskiy (Universitätsklinikum Erlangen), Christian Kaseß (Acoustics Research Institute, Vienna), Gernot Kubin (TU Graz), Sylvia Moosmüller (Acoustics Research Institute, Vienna), Berit Schneider-Stickler (MedUni Vienna), Jean Schoentgen (Université Libre de Bruxelles), Jan Švec (Palacký University Olomouc).
- October 30, 2013 **Scientific Seminar II**, *Vienna, Austria*, with: Wolfgang Bigenzahn (MedUni Vienna), Gernot Kubin (TU Graz), Berit Schneider-Stickler (MedUni Vienna), Jean Schoentgen (Université Libre de Bruxelles), Jan Švec (Palacký University Olomouc).
- June 1, 2013 **New Investigator Research Forum, The Voice Foundation**, *Philadelphia, USA*, with: Ron Baken, Mara Behlau, Molly Erickson, Michael Johns, Robert Sataloff, Nancy Pearl Solomon, Sten Ternstroem, Harvey Tucker and Edwin Yiu..
- January 23, 2013 **Scientific Seminar I**, *Vienna, Austria*, with: Wolfgang Bigenzahn (MedUni Vienna), Christian Herbst (Palacký University Olomouc), Berit Schneider-Stickler (MedUni Vienna), Jan Švec (Palacký University Olomouc).

Conference session chairing

- 5 Round table I Voice quality assessment and monitoring, *10th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, December 13, 2017, Florence, Italy.
- 4 Voice quality monitoring, *10th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, December 13, 2017, Florence, Italy.
- 3 Voice quality assessment, *10th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, December 13, 2017, Florence, Italy.
- 2 FP-EGG-Imaging, *9th International Workshop on Models and Analysis of Vocal Emissions for Biomedical Applications*, September 3, 2015, Florence, Italy.
- 1 FP-Acoustical/Mechanical Analysis 2, *11th Pan-European Voice Conference*, August 31, 2015, Florence, Italy.

Reviewing activity

German Research Foundation (DFG)
Journal of the Acoustical Society of America
IEEE Transactions on Audio, Speech and Language Processing
Journal of the Speech, Language, and Hearing Research
Biomedical Signal Processing and Control
Open Computer Science
Applied Sciences
Acta Acustica united with Acustica
Journal of Medical and Biological Engineering

University courses

Annually since 2018 "Methods of diagnostic analyses for audio recordings of dysphonic voices", Medical University of Vienna.

Student mentoring

Vinod Devaraj PhD thesis
Paul Berghold BSc. thesis: "Inverse Filtering of Pathologic Voice", Signal Processing and Speech Communication Lab, Graz University of Technology, Graz, Austria, 2015, Graz, Austria.
Christoph Aigner BSc. thesis: "Glottal Movement Extraction from High-Speed Videos", Signal Processing and Speech Communication Lab, Graz University of Technology, 2014, Graz, Austria.
Tamara Jagersberger Mag.art. thesis: "Vibratoanalysen anhand von Stimmaufnahmen klassischer Sänger bezogen auf die Dauer ihrer gesanglichen Ausbildung und Bühnenerfahrung", Institut Antonio Salieri, University of Music and Performing Arts Vienna, 2014, Vienna, Austria.
Fabian Schenk MSc. thesis: "Glottal Movement Extraction from High-Speed Videos", Institute for Computer Graphics and Vision, Graz University of Technology, 2014, Graz, Austria.

Memberships

IEEE Signal Processing Society
Audio Engineering Society (AES)
Acoustical Society of America (ASA)
The Voice Foundation
American Speech-Language-Hearing Association (ASHA)
International Speech Communication Association (ISCA)
Austrian Society of Logopedics, Phoniatrics and Pediatric Audiology (International Association of Logopedics and Phoniatrics)

Austrian Acoustics Association
Alumni-Club of the Medical University of Vienna
Vienna Biometric Section, International Biometric Society
Austrian Society of Epidemiology

References

Ao.Univ.-Prof. Dr.med.univ. Doris-Maria Denk-Linnert
Univ.-Prof. Dipl.-Ing. Dr.techn. Gernot Kubin
Dr.habil. Jean Schoentgen

Languages

German Native
English Advanced/professional

Computer skills

Advanced MATLAB, Praat, Cubase
Intermediate LaTeX, Mendeley, MS Office, OpenOffice, SPSS, JabRef, MS Windows, SVN
Basic STX, ProTools, Samplitude, C/C++, Java, Assembler, MySQL, AutoCAD, Linux, Gimp, Photoshop, Inkscape, IrfanView

Personal skills, strengths and attitude

Positive attitude and work ethic, desire to learn and to be trained, ability to relate to co-workers from other disciplines, reliability, ability to work autonomously, personal integrity, motivational skills, empathy, dedication for the job, creativity, compulsory skepticism, flexibility, loyalty, respectfulness, patience.

Additional information

2002–2005 Austrian Red Cross, Ambulance driver and paramedic: Civilian service and voluntary work
Hobbies Playing the guitar, going to concerts, Sudoku, traveling, cycling, running