

# CV – Univ.-Prof. Dr. Wilhelm Wimmer

## 1) Personal Information

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Google-Scholar ID: Wilhelm Wimmer (total citations: 1423, h-index: 21)

OrCID: 0000-0001-5392-2074

Date/Place of Birth: October 22<sup>nd</sup>, 1985 in Tizi Ouzou (Algeria)

Citizenship: Austrian

Marital status: Married, 3 children

## 2) Education

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01/2021 **Habilitation – Venia Docendi in Experimental Audiology**  
University of Bern, CH

08/2012 – 12/2015 **PhD (Dr. sc. nat.), Biomedical Engineering** (summa cum laude)  
University of Bern, CH  
Defense date: December 8<sup>th</sup>, 2015, Supervisor: Prof. Martin Kompis

06/2010 – 06/2012 **MSc, Biomedical Engineering** (summa cum laude)  
Graz University of Technology, AT

10/2006 – 06/2010 **BSc, Biomedical Engineering**  
Graz University of Technology, AT

## 3) Employment History and Current Position

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03/2023 – to date *Assistant Professor (W2 TT) of Experimental Audiology*  
Technical University of Munich, DE

01/2017 – 02/2023 *Lecturer and Group Leader of Hearing Research Laboratory*  
University of Bern, CH

11/2018 – 10/2019 *SNSF Postdoctoral Fellow, Medical Image Analysis*  
EPIONE Research Team, INRIA, Sophia Antipolis, FR  
Mentor: Prof. Hervé Delingette / Prof. Nicholas Ayache

01/2016 – 12/2016 *Postdoctoral Researcher, Medical Image Analysis/Audiology*  
Department of ENT, Inselspital and ARTORG Center, University of Bern, CH  
Advisors: Prof. Marco Caversaccio, Prof. Stefan Weber

08/2012 – 12/2020 *Clinical Audiologist*  
Department of ENT, Inselspital, Bern, CH

10/2011 – 06/2012 *Research Assistant*  
Graz University of Technology, AT

## 4) Institutional Responsibilities

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08/2012 – 02/2023 Responsible for the Temporal Bone Laboratory (Ex-Vivo)  
ARTORG Center, University of Bern, Switzerland

08/2012 – 02/2023 Responsible for the Psychoacoustics Laboratory  
ARTORG Center, University of Bern, Switzerland

## 5) Approved Research Projects and Grants

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2021-2025	<i>Swiss National Science Foundation Project Fund</i> , CH (EUR 300'000) Principal investigator; Project: Physiological Role of Torsion in the Cochlea
2021-2023	<i>Innosuisse Project Fund (with Bernafon SA)</i> , CH (EUR 220'000) Principal investigator; Project: Personalized Tinnitus Relief in Hearing Aids
2021-2024	<i>MED-EL GmbH (Industry)</i> , Austria (EUR 100'000) PI; Project: Impedance-telemetry Based Insertion Depth Estimation for CI
2020-2024	<i>Swiss National Science Foundation Project Fund</i> , CH (EUR 550'000) Collaborator; Project: The Human Auditory System in Motion
2021-2024	<i>Cochlear Ltd (Industry)</i> , Australia (EUR 240'000) Co-PI; Project: Identify Traumatic Events during Cochlear Implantation
2020-2021	<i>Charidu, Jean Stieger-Stiftung, OPOS (Foundations)</i> , CH (EUR 67'300) PI; Project: Impedance-telemetry Based Insertion Depth Estimation for CI
2020-2021	<i>Emperor, CI&amp;CD Charity, J&amp;K Wonderland (Foundations)</i> , CH (EUR 125'000) PI; Project: Smart Insertion Tool for Cochlear Implantation
2020-2021	<i>Purma, The Dunemere, Wolfermann-Nägeli (Foundations)</i> , CH (EUR 96'000) PI; Project: Tinnitus Diagnosis Tool
2018-2019	<i>Swiss National Science Foundation Postdoc.Mobility</i> , CH (EUR 77'000) Principal investigator; Project: Shape Recognition in the Human Cochlea
2017-2019	<i>Eurostars – EUREKA</i> (EUR 1'730'000, EUR 218'000 at our institute) Co-PI; Project: Robotic Cochlear Implantation
2017	<i>Commission for Technology and Innovation</i> , CH (EUR 38'500) Principal investigator; Project: Tinnitus tracking smartphone application
2017-2018	<i>Clinical Trial Unit Grant, Inselspital</i> , CH (EUR 77'000) Co-PI; Project: Minimally invasive access to the internal auditory canal
2017-2020	<i>Oticon SA (Industry)</i> , Denmark (EUR 192'500) Principal investigator; Project: Identification of tinnitus in EEG
2017-2020	<i>Med-El GmbH</i> , Austria (EUR 192'500) Principal investigator; Project: Sound localization of CI recipients

## 6) Supervision of Junior Researchers (ongoing)

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Julia Veloso de Oliveira	<i>PhD Candidate</i> (Dr.-Ing.; supervision, 2023-2027) Project: Objective Monitoring and Fitting in Cochlear Implants
Raphael Andonie	<i>PhD Candidate</i> (co-supervision, 2021-2024) Project: Identification of Traumatic Events during Cochlear Implantation
Stephan Schraivogel	<i>PhD Candidate</i> (supervision, 2021-2024) Project: Impedance-telemetry based insertion depth estimation for CI
Aleksandra Ivanovic	<i>PhD Candidate</i> (co-supervision, 2020-2023) Project: Dynamic phase-contrast microtomography of the human middle ear
András Bálint	<i>PhD Candidate</i> (co-supervision, 2021-2024) Project: Cochlear Implant Speech Understanding with fNIRS

## **7) Supervision of Junior Researchers (completed)**

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Klaus Schürch	<i>PhD</i> (co-supervision, completed 2023) Project: Electrocochleography based diagnostics for cochlear implants
Emile Talon	<i>PhD</i> (supervision, completed 2023) Project: Design and implementation of a novel middle ear implant
Noëlle Harte	<i>PhD</i> (supervision, completed 2023) Project: The spiral shape of the cochlea
Philipp Aebischer	<i>PhD</i> (supervision, completed 2022) Project: Smart electrode insertion tool for cochlear implantation
Suyi Hu	<i>PhD</i> (supervision, completed 2021) Project: Automatic detection of tinnitus in electro-encephalography
Tim Fischer	<i>PhD</i> (supervision, completed 2021) Project: Sound localization of CI patients in dynamic sound field environments
Christoph Rathgeb	<i>PhD</i> (co-supervision, completed 2018) Project: Computer-assisted personalized cochlear implantation
Tom Gawliczek	<i>PhD</i> (co-supervision, completed 2020) Project: Improving coupling, fitting and feedback control for BC hearing system
Nino Negri	<i>MD</i> (supervision, completed 2020)
Moritz von Werdt	<i>MD</i> (co-supervision, completed 2018)
Fabio Munzinger	<i>MD</i> (supervision, completed 2017)
Benjamin Bircher	<i>MSc</i> (supervision, completed 2021)
Rémy Ngyuen	<i>MSc</i> (supervision, completed 2021)
Sidharta Gupta	<i>MSc</i> (supervision, completed 2017)

## **8) Memberships in Panels, Boards / Individual Scientific Reviewing Activities**

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Journals	<i>Reviewer</i> , Hearing Research, Computers in Biology and Medicine, PLOS One, Ear Hearing, Frontiers, Clinical Otolaryngology, Laryngoscope, Otology and Neurotology, International Archives of Otorhinolaryngology,
Research Councils	<i>Reviewer</i> , SNSF, DFG, KU Leuven Research Council

## **9) Active Memberships in Scientific Societies**

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04/2021 – to date	<i>Scientific Advisory Board Member</i> , Swiss Tinnitus League
04/2020 – to date	<i>Full Member</i> , Deutsche Gesellschaft für Audiologie (DGA)
06/2019 – to date	<i>MICCAI Member</i> Medical Image Computing and Computer Assisted Intervention Society
11/2017 – to date	<i>Full Member (Technical Expert)</i> Swiss Society of ORL, Head and Neck Surgery

## **10) Organization of Conferences**

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05/2022	<i>Faculty Member (cancelled due to COVID)</i> OSSEO 2022, Interlaken, Switzerland
06/2017	<i>Member of the Local Organizing Committee</i> 13 <sup>th</sup> Congress of the European Federation of Audiology Societies (EFAS) Interlaken, Switzerland
09/2016	<i>Member of the Local Organizing Committee</i> 15 <sup>th</sup> Conf. of the German Society for Computer-Assisted Rad. & Surg., Bern

## 11) Prizes, Awards

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09/2023	Research Award PhD thesis of Philipp Aebischer (supervision of PhD thesis) Swiss Society for Biomedical Engineering, Basel, Switzerland
01/2022	Research Award for PhD thesis of Suyi Hu (supervision of PhD thesis) Swiss Tinnitus League, Igis, Switzerland
03/2019	Young Scientist Award, Tim Fischer (supervision of PhD thesis) 22 <sup>nd</sup> Congress of the German Society for Audiology, Heidelberg, Germany
10/2017	<i>KUKA Best Paper Award 2017</i> , "Robotic Cochlear Implantation" 16 <sup>th</sup> Conference of CURAC Hanover, Germany
09/2017	<i>Hans-Joachim-Denecke-Preis 2017</i> , "Robotic Cochlear Implantation" 25 <sup>th</sup> Conf. of German Society of Skull Base Surgery, Düsseldorf, Germany
06/2014	<i>Travel Grant</i> , Graduate School for Cellular and Biomedical Sciences 13 <sup>th</sup> International Conference on Cochlear Implants, Munich, Germany
06/2013	<i>Hamlyn Medical Robotics Award for Best Oral Presentation</i> , "Image Guided and Robotic Assisted Minimally Invasive Cochlear Implantation" Hamlyn Symposium on Medical Robotics, London, UK
06/2012	Merit-based Scholarship "Leistungsstipendium" (EUR 1'500) Graz University of Technology, AT
06/2011	Erasmus Mobility Project Grant (EUR 1'000), 3 month student stay in Bern, CH Graz University of Technology, AT