

BENEDIKT SAGL, PHD

Date of Birth: 04.03.1990

Address: Sensengasse 2a, 1090 Vienna

Phone: +431 40070 4204

E-Mail: benedikt.sagl@meduniwien.ac.at

EDUCATION

Medical University of Vienna, Austria Habilitation/ Venia Docendi Discipline: Biomedical Engineering Exposé Title: "Computer-aided biomechanics of the masticatory system"	2024
Medical University of Vienna, Austria Doctor of Philosophy <i>Academic Focus: Biomechanical Simulation, Medical Imaging</i> Thesis Title: "Novel in-silico approaches for the investigation of the human masticatory system"	2016-2020
University of Saskatchewan, Canada Master's degree program in Computer Science <i>Academic Focus: Biomechanical Simulation, Medical Image Processing</i> Thesis Title: „Biomechanical Modeling of the Masticatory Region“	2014 - 2016
University of Applied Science Technikum Vienna, Austria Bachelor's degree program in Biomedical Engineering <i>Academic Focus: Medical Image Processing, Computer Simulation</i> Thesis Title: „Development of a Workflow for Segmentation of the Cranial Region“	2009 - 2012

WORK EXPERIENCE

Medical University of Vienna University Clinic of Dentistry Group Leader - Competence Center Artificial Intelligence in Dentistry <i>Established and lead the research group, currently comprising 7 PhD students and 1 postdoctoral researcher. Direct projects on computational biomechanics and AI in dentistry, spanning method development, clinical translation and industry-partnered research.</i>	since 2024
Medical University of Vienna University Clinic of Dentistry Internal Career Agreement (MUV internal tenure track model)	since 2025
Medical University of Vienna Comprehensive Center AI in Medicine Executive Board Member <i>Strategic development and coordination of collaboration within MUV</i>	since 2025
Clemson University Department of Bioengineering Adjunct Professor	since 2024

Contributing to projects in computational biomechanics and artificial intelligence in bioengineering

Medical University of Vienna PhD Student and Postdoctoral Researcher <i>Projects focused on computational biomechanics of the masticatory region</i>	2017 - 2024
Ludwig-Boltzmann-Institute for experimental and clinical traumatology - Karl Donath Laboratory Research Assistant <i>Processing and analysis of medical image data for various research projects</i>	2019
University of Saskatchewan, Canada Visiting Researcher <i>Development of a FEM TMJ model</i> <i>Development of a new optimization method for forward-dynamics tracking simulations</i>	2017
University of Saskatchewan, Canada Research Assistant <i>Computer simulations of the masticatory region</i>	2014 - 2016
Medical University of Vienna Intern <i>Development of a simple implementation of the Feldkamp CBCT-reconstruction algorithm</i>	2012
A.E.R.S Dental Medicine Organisations Research Assistant <i>Projects in the area of image processing and computational biomechanics of the jaw region</i>	2011 - 2017

RESEARCH INTERESTS

Artificial Intelligence, Computer Simulation, Biomechanics, Medical Imaging

SCIENTIFIC PRODUCTION

Publications – metrical overview (04/08/26, Scopus):

In total: **24** original articles, **8** first author, **13** corresponding author, **3** senior author
Cumulative impact factor: **106.685**
Cumulative citations: **254**
h-index: **9**

PUBLICATIONS

(corresponding author starred; IF at time of acceptance)

	Impact Factor (SCI):
In vivo prediction of temporomandibular joint disc thickness and position changes for different jaw positions. Sagl B* , Schmid-Schwap M, Piehslinger E, Kronnerwetter C, Kundi M, Trattnig S, Stavness I. J Anat. 2019 May;234(5):718-727. doi: 10.1111/joa.12951.	2.638
Fast Forward-Dynamics Tracking Simulation: Application to Upper Limb and Shoulder Modeling.	4.288

- Sagl B***, Dickerson CR, Stavness I. **IEEE Trans Biomed Eng.** 2019 Feb;66(2):335-342. doi: 10.1109/TBME.2018.2838020
- A Dynamic Jaw Model With a Finite-Element Temporomandibular Joint. **Sagl B***, Schmid-Schwap M, Piehslinger E, Kundi M, Stavness I. **Front Physiol.** 2019 Sep 13;10:1156. doi: 10.3389/fphys.2019.01156 **3.367**
- Characterizing Motor Control of Mastication With Soft Actor-Critic. **Abdi AH, Sagl B, Srungarapu VP, Stavness I, Prisman E, Abolmaesumi P, Fels S. Front Hum Neurosci.** 2020 May 26;14:188. doi: 10.3389/fnhum.2020.00188 **2.673**
- Bone healing around titanium implants in a preclinical model of bile duct ligation-induced liver injury. Talebian R, Kamplaitner C, **Sagl B**, Kuchler U, Dehpour AR, Gruber R. **Clin Oral Implants Res.** 2021 Aug;32(8):980-988. doi: 10.1111/clr.13792. **5.977**
- A Novel Quantitative Method for Tooth Grinding Surface Assessment Using 3D Scanning. **Sagl B***, Besirevic-Bulic F, Schmid-Schwap M, Laky B, Janjić K, Piehslinger E, Rausch-Fan X. **Diagnostics (Basel).** 2021 Aug 16;11(8):1483. doi: 10.3390/diagnostics11081483. **3.706**
- An in silico investigation of the effect of bolus properties on TMJ loading during mastication. **Sagl B***, Schmid-Schwap M, Piehslinger E, Rausch-Fan X, Stavness I. **J Mech Behav Biomed Mater.** 2021 Dec;124:104836. doi: 10.1016/j.jmbbm.2021. **3.902**
- Experimental validation of a micro-CT finite element model of a human cadaveric mandible rehabilitated with short-implant-supported partial dentures. Zupancic Cepic L, Frank M, Reisinger AG, **Sagl B**, Pahr DH, Zechner W, Schedle A. **J Mech Behav Biomed Mater.** 2022 Feb;126:105033. doi: 10.1016/j.jmbbm.2021.105033. **3.902**
- Effect of facet inclination and location on TMJ loading during bruxism: An in-silico study. **Sagl B***, Schmid-Schwap M, Piehslinger E, Kundi M, Stavness I. **J Adv Res.** 2021 Apr 29;35:25-32. doi: 10.1016/j.jare.2021.04.009. **10.479**
- The effect of tooth cusp morphology and grinding direction on TMJ loading during bruxism. **Sagl B***, Schmid-Schwap M, Piehslinger E, Rausch-Fan X, Stavness I. **Front Physiol.** 2022 Sep 15;13:964930. doi: 10.3389/fphys.2022.964930. **4.755**
- Wear Management of Colored Foils for the Assessment of Sleep Bruxism Patterns-A Prospective, Randomized Crossover Study. Besirevic-Bulic F, Schmid-Schwap M, Kundi M, **Sagl B**, Piehslinger E. **Diagnostics (Basel).** 2023 Jan 4;13(2):172. doi: 10.3390/diagnostics13020172 **3.992**
- Differential gene expression and protein-protein interaction networks of human periodontal ligament stromal cells under mechanical tension. Janjić K, Nemec M, Maaser JL, **Sagl B**, Jonke E, Andrukhov O. **Eur J Cell Biol.** 2023 Jun;102(2):151319. doi: 10.1016/j.ejcb.2023.151319. **6.6**
- Functional reconstruction of the masseter muscle by microvascular free gracilis muscle transfer: technique and outcome. Gaggli A, Bottini GB, **Sagl B**, Rasse M. **Int J Oral Maxillofac Surg.** 2023 Jun 30:S0901-5027(23)00139-X. doi: 10.1016/j.ijom.2023.06.004. **2.4**
- The effect of bolus properties on muscle activation patterns and TMJ loading during unilateral chewing. **Sagl B***, Schmid-Schwap M, Piehslinger E, Yao H., Rausch-Fan X, Stavness I. **J Mech Behav Biomed Mater.** 2024 Mar;151:106401. doi: 10.1016/j.jmbbm.2024.106401 **3.9**

- Transfer accuracy of 3D printed versus CAD/CAM milled surgical guides for temporary orthodontic implants: a preclinical micro CT study. Schwärzler A., Ludwig B., Chitan P., Lettner S., **Sagl B.***, Jonke E. **J Dent.** 2024 May 10:105060. doi: 10.1016/j.jdent.2024.105060. **4.4**
- To what extent can mastication functionality be restored following mandibular reconstruction surgery? A computer modeling approach. Aftabi H, **Sagl B**, Lloyd JE, Prisman E, Hodgson A, Fels S. **Comput Methods Programs Biomed.** 2024 Jun; doi: 10.1016/j.cmpb.2024.108174. **6.1**
- Explainable deep learning and biomechanical modeling for TMJ disorder morphological risk factors. Sun S, Xu P, Buchweitz N, Hill CN, Ahmadi F, Wilson MB, Mei A, She X, **Sagl B**, Slate EH, Lee JS, Wu Y, Yao H. **JCI Insight.** 2024 Jul 11;9(16):e178578. doi: 10.1172/jci.insight.178578. **6.3**
- A Dietary Supplement in the Management of Patients with Lumbar Osteochondrosis: A Randomized, Double-Blinded, Placebo-Controlled Study. Laky B, Huemer D, Eigenschink M, **Sagl B**, Thell R, Wagner KH, Anderl W, Heuberger PR. *Nutrients.* 2024 Aug 14;16(16):2695. doi: 10.3390/nu16162695. **4.8**
- Development, calibration and validation of impact-specific cervical spine models: A novel approach using hybrid multibody and finite-element methods. Holzinger T., Cazzola D., **Sagl, B.*** **Comput Methods Programs Biomed.** 2024 Sep 18:257:108430. doi: 10.1016/j.cmpb.2024.108430 **4.9**
- A comparative study of digital and conventional occlusal indicators: Accuracy and reliability of the T-Scan Novus, wax occlusogram, and articulating silk in clinical application. Reich K.M., Tatzber V., Skolka A., Piehslinger E., Lettner S., Kundi M, **Sagl B.*** **J Dent.** 2025 Mar 15:105695. doi: 10.1016/j.jdent.2025.105695 **4.8**
- OsteoOpt: A Bayesian Optimization Framework for Enhancing Bone Union Likelihood in Mandibular Reconstruction Surgery. Aftabi H, Lloyd JE, Ding A, **Sagl B**, Hodgson A, Fels S. *MICCAI* 2025. doi: 10.1007/978-3-032-04947-6_43
- Preclinical perspectives on disorders of the temporomandibular joint: Tracing the past, navigating the present, and shaping the future. JK Neubert et al., **J Pain.** 2025 Sep 13:105560. doi: 10.1016/j.jpain.2025.105560 **4.0**
- A Computational Framework for Simulating Patient-Specific TMJ Biomechanics Using a Combined Multibody Dynamics and Finite Element Approach. Ahmadi F, Sun S, Zhao J, Chen J, Wilson MB, Damon B, Wu Y, Almpiani K, Chung R, Jani P, Chen P, Slate EH, Lee JS, **Sagl B***, Yao H. *Ann Biomed Eng.* 2026 Mar. doi: 10.1007/s10439-026-04020-0. **5.4**
- Milled surgical guides vs. freehand placement of orthodontic implants: a preclinical micro-CT study. Schwärzler A., Chitan P., Panwinkler S., Domic D., **Sagl B.***, Jonke E. *Front Oral Health.* 2026 Jun 18;7:1834583. doi: 10.3389/froh.2026.1834583. **3.4**

SCIENTIFIC FUNDING

Total acquired funding: **1 106 435,08 €**
 Number of projects as PI: **4**
 Number of Projects as Co-I: **2**
 Funding sources: **FWF, FFG, NIH, Industry**
 Currently requested funding: 747 388,70 €

THIRD PARTY FUNDING

Medical-Scientific Fund of the Mayor of Vienna Funding amount: 15,000 €, Co-I, PI: Prof. Piehslinger	2017
National Institute of Health – NIH <i>TMJ SYMPHONY: Systems-integrated model and mechanisms of patient-centered holistic outcomes and network-supported training and therapy.</i> RFA-DE-23-014 TMD IMPACT planning grant; Role: Co-I/ Site Leader/ Center Co-Chair (PI: Prof. Hai Yao, Clemson University) Funding amount: 200 000\$ (10 300\$ MUV)	2023
Investigator Initiated Trial - LM Technology <i>Investigation of biomechanical effects of Eruption Guidance Appliance (EGA) on the jaw bones and temporomandibular joints</i> Funding amount: 30 000 € , Role: PI	2023
Investigator Initiated Trial - Amann Girrbach <i>Clinical safety and performance of custom-made zirconia restorations made of Zolid Gen-X and Zolid Bion</i> Funding amount: 263 960 € , Role: PI	2024
Austrian Research Promotion Agency – FFG <i>TMD TRACE - Training of neural networks and Research for Advanced Classification and Explanation of mandibular kinematics</i> BRIDGE 2024-02 Project. Funding amount: 355 712,00 € , Role: PI	2025
Austrian Science Fund – FWF <i>Personalized modeling of TMJ sexual dimorphism biomechanics</i> Stand-Alone Project. Funding amount: 456 290 € , Role: PI	2025
Grant submissions currently pending:	
Austrian Science Fund – FWF <i>Longitudinal AI-Based Forecasting of Peri-Implant Bone Loss</i> PI Project/ Austria – Korea Collaborative Projects. Role: PI Requested funding: 388 079,70 €	under review
Austrian Research Promotion Agency – FFG <i>ARTIS - ARTificial intelligence for InTraoral Scans</i> BRIDGE 2026-0 Project. Requested funding: 359 309,00€	under review

AWARDS

Rudolf Slavicek Paper Award of the Austrian Society of Dentistry – Charter Vienna	2020
Poster Presentation Award – YSA Symposium 2019	2019
Student scholarship, Medical University of Vienna Funding amount: 1 000 €	2016
Best Technical Demonstration Award, OpenSim Advanced User Workshop, Stanford University	2015

Travel Grant, OpenSim Advanced User Workshop, Stanford University <i>Funding amount: 3 000 USD</i>	2015
Travel Grant, Summerschool on Biomedical Imaging, ETH Zürich <i>Funding amount: 500 CHF</i>	2013
Performance scholarship, Technikum Vienna <i>Funding amount: 762.72 € each</i>	2011 – 2012

INVITED TALKS

Beijing Institute of Technology, China <i>Computational biomechanics and ML methods in dentistry</i>	2026
Southern Medical University, China <i>AI and Simulation to Understand to improve dental care</i>	2026
Texas A&M University: Pathways to Excellence <i>Data-Driven Discovery in Dentistry: Integrating AI and simulation to understand and treat orofacial disorders</i>	2025
Austrian Society for Oral and Maxillofacial Medicine <i>Artificial intelligence (AI) in dentistry - future or reality?</i>	2025
19th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering <i>Combining finite element and multibody modeling to simulate joint stress during dynamic tasks</i>	2024
ESB Webinar Series- No.15 <i>ArtiSynth: A Platform for Combined MultiBody and Finite Element Simulation</i>	2023
AnthropologyCA: Anthropology meets Dentistry <i>Methods for the analysis of TMJ biomechanics and evaluation of occlusal forces</i>	2023
6th SfN Satellite symposium on Craniofacial Neuroscience <i>Biomechanical effect of grinding facet inclination and position</i>	2021
17th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering <i>Computational investigation of the effect of bolus stiffness on TMJ loading during chewing</i>	2021
FE ZURICH 2021 Workshop <i>Using a combined rigid-body FEM model to investigate human jaw function</i>	2021
CAMS Knee Workshop <i>Investigating meniscus forces using a combined multibody-FEM model</i>	2020
CAMS Knee Workshop <i>ArtiSynth Tutorial</i>	2020

Clinic of Masticatory Disorders, University of Zurich, Switzerland **2018**
Invited Talk on the topic of biomechanical Simulation of the masticatory region

Media and Graphic Interdisciplinary Centre, University of British Columbia, Canada **2018**
Invited Talk on the topic of TMJ imaging and biomechanics

PROFESSIONAL SERVICE

Part of the funding jury for the Vienna Business Agency

Reviewer for various international journals including the International Journal of Oral Science, Journal of Oral Rehabilitation, Computers in Biology and Medicine and Journal of Biomechanics

Member of Scientific Committee for the European Society of Biomechanics Congress 2022 and 2023

CONFERENCE PROCEEDINGS

International Association for Dental Research General Session 2026 **2026**
 Holzinger T., Stecker-Jarnik R., Dervisebegovic S., Rausch-Fan, X., **Sagl B.**
Deep Learning–Based Tooth Landmark Detection for Periodontal Bone Loss

International Association for Dental Research General Session 2026 **2026**
 Yugay V., Vaskovich T., Schedle A., **Sagl B.**
Micro-CT Fit Evaluation of Long-Span Zirconia FDPs: Various Design Influences.

10th International TMJ Interdisciplinary Research Meeting **2025**
 Holzinger T., Schmid-Schwap M., Rausch-Fan, X., Yao. H, **Sagl B.**
Enhancing TMJ MRI Classification: A 3D Multiclass Deep Learning Framework with Contrastive Learning

19th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering **2024**
 Aftabi H., **Sagl B.**, Lloyd J. E., Prisman E., Hodgson A., Fels S.
Predicting TMJ disc response to jaw reconstruction surgery: a computer modeling approach

19th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering **2024**
 Herbst E. C., Lloyd J. E., **Sagl B.**, Ferguson S. J., Moroder P.
Towards patient specific fem shoulder modeling

9th International TMJ Interdisciplinary Research Meeting **2024**
Sagl B., Sun S., Holzinger T., Chen P., Chai J., Rausch-Fan, X., Lee J., Yao H.
Towards the integration of nociception into computational TMJ modeling

9th International TMJ Interdisciplinary Research Meeting **2024**
 Holzinger T., Schmid-Schwap M., Rausch-Fan, X., Yao H., **Sagl B.**
Using a three-dimensional deep learning approach to generate synthetic CT and MRI images for better analysis of TMJ structures

- 9th International TMJ Interdisciplinary Research Meeting** **2024**
 Sun S., Hill C., Damon B., Zhao J., Almpanti K., Jani P., Ahmadi F., Chen J., **Sagl B.**,
 Lee J.S., Yao, H.
*Using a three-dimensional deep learning approach to generate synthetic CT
 and MRI images for better analysis of TMJ structures*
- 2024 IADR/ AADOCR Meeting** **2024**
 Sun S., Ahmadi F., **Sagl B.**, Hill C., Wu Y., Yao H.
*Modeling TMJ Nociceptive Signal Generation with Structural and
 Neurological Interaction*
- AAOMS 105th Annual Meeting** **2023**
 Sun S., Ahmadi F., Hill C., Almpanti K., Jani P., Damon B., **Sagl B.**, Wu Y., Lee J.S., Yao H.
*Bite Force Control Capacity Differs Between Dentofacial Differences and
 Improves With Orthognathic Surgery*
- 2023 AADOCR/CADR Annual Meeting** **2023**
 Sun S., Ahmadi F., Hill C., Almpanti K., Jani P., Damon B., **Sagl B.**, Wu Y., Lee J.S., Yao H.
Evaluating Bite Force Control Capacity Before And After Orthognathic Surgery
- European Society of Biomechanics Congress 2022** **2022**
Sagl B., Schmid-Schwap M., Piehslinger E., Rausch-Fan X., Stavness I.
Differences in TMJ Loading between Mediotrusive And Laterotrusive Tooth Grinding
- European Society of Biomechanics Congress 2022** **2022**
 Holzinger T., Martinek J., Cazzola D., **Sagl B.**
*Simulating Head-First Impact in Sport: A Hybrid Multibody And Finite Element Head
 And Neck Model*
- TMJ Bioengineering Conference 7** **2022**
Sagl B., Schmid-Schwap M., Piehslinger E., Rausch-Fan X., Stavness I.
*The effect of bolus stiffness on TMJ loading and muscle excitation during
 unilateral chewing*
- XXVIII Congress of the International Society of Biomechanics** **2021**
Sagl B., Smith C.R., Lloyd J.E., Stavness I.
*A forward-dynamics tracking simulation using a combined rigid body - FEM model
 to predict knee meniscus loading*
- Viesid Summerschool 2021** **2021**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I.
Effect of facet inclination and location on TMJ loading during bruxism: An in-silico study
- International Association for Dental Research General Session 2020** **2020**
Sagl B., Hager B., Eder J., Schmid-Schwap M., Dworin J., Traxler H., Piehslinger E., Trattng S.
Examining TMJ Morphology using 7T-MR Microscopy: A Preliminary Investigation
- 52. Jahrestagung der Gesellschaft für Funktionsdiagnostik und -therapie** **2019**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Trattng S., Stavness I.
*Ein detailliertes Computermode der Kauregion basierend auf
 hochaufgelösten MRT Bilddaten*

- XXVII Congress of the International Society of Biomechanics** **2019**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I.
A Dynamic Jaw Model with a Finite-Element Temporomandibular Joint
- XVII International Symposium on Computer Simulation in Biomechanics** **2019**
Sagl B., Smith C, Schmid-Schwap M., Piehslinger E., Kundi M., Lloyd J., Stavness I.
A Novel Contact Model for the Computational Investigation of Synovial Joints with a Cartilaginous Disc
- European Society of Biomechanics Conference 2019** **2019**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I.
A forward-dynamics tracking approach for the investigation of tooth grinding using a combined rigid body - FEM model
- 15th YSA PhD Symposium** **2019**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I.
A Dynamic Jaw Model with a Finite-Element Temporomandibular Joint
- MIC Festival 2019 - Digital Revolution in Medical Imaging** **2019**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I., Trattng S.
A detailed computer model of the masticatory region built from high-resolution MRI data
- Gesellschaft für Medizinische Ausbildung Jahrestagung** **2018**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I.
Ein dreidimensionales, interaktives Computermodell der Kauregion und seine potentielle Anwendung in der medizinischen Lehre
- Viesid Summerschool 2018** **2018**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I.
Development of a detailed Computational Model of the Masticatory Region
- TMJ Bioengineering Conference 6** **2018**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I.
A Novel Combined Rigid Body – Finite Element Model for the Investigation of Temporomandibular Joint Loads
- 15th International Symposium on Computer Methods in Biomechanics and Biomedical Engineering** **2018**
Sagl B., Schmid-Schwap M., Piehslinger E., Kundi M., Stavness I.
Towards Development of a Combined Rigid Body – Finite Element Model for the Investigation of Temporomandibular Joint Loads
- 40th Annual Meeting of the American Society of Biomechanics** **2016**
 Stavness, I., **Sagl, B.**, Cooper, J., Dickerson, C
Real-Time Forward-Dynamics Tracking Simulation with Joint Stability Constraints
- Viesid Summerschool 2015** **2015**
Sagl, B., Stavness, I., Slavicek, R.
Inverse Modeling of the Masticatory System

XXV Congress of the International Society of Biomechanics Sagl, B., Stavness, I., Slavicek, R. <i>Forward-Dynamics Tracking with Reaction Force Targets</i>	2015
IAAID International Congress on Bruxism Sagl, B., Stavness, I., Slavicek, R. <i>Biomechanical Simulation of Bruxism using Movement and Force Targets</i>	2015
Viesid Summerschool 2013 Sagl, B., Slavicek, R. <i>Finite Element Analysis of Human Dentition</i>	2013

TEACHING ACTIVITIES

VB "Digital Dentistry" Medical University of Vienna	WS 2024
JC "Orthopaedics and Trauma Surgery" Medical University of Vienna <i>Preparing and chairing of a part of the journal club in the Doctoral Programme of Applied Medical Science</i>	since WS 2024
SE "SSM 2 - Three-dimensional studies of relevant variations in dental arch morphology" Medical University of Vienna	SS 2023
SE "SSM 1 - Computational biomechanics of the musculoskeletal system" Medical University of Vienna	since WS 2021
VO "Biomechanics of the craniomandibular system" - M Z-7 Removable prosthodontics Medical University of Vienna <i>Lecture on biomechanics of the masticatory system with focus on TMJ</i>	since SS 2021
JC "Jawbone regeneration and oral tissue engineering", 850.033 Medical University of Vienna <i>Preparing and chairing of a part of the journal club in the Doctoral Programme of Applied Medical Science</i>	SS 2019 – SS 2024
„Senior Mentoring, 800.000“ Medical University of Vienna <i>Organisation of a mentoring environment for a group of medical students, discussion of relevant topics and support with study related problems</i>	since WS 2019
Master and Diploma Thesis supervision <i>23 completed and ongoing theses at the Medical University of Vienna and FH Technikum Vienna.</i>	since 2019
PhD supervision <i>principal supervisor of 8 doctoral candidates at the Medical University of Vienna (7 within the CC AIDent group) and co-supervisor of 2 students at Medical University of Vienna and Clemson University.</i>	since 2023