Kang-Woo Lee

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Position

2023-Present **Postdoctoral Researcher**, GIST, Mechanical Engineering.

2020-2023 **Postdoctoral Research Associate**, *Yonsei University*, College of Dentistry,

Division of Anatomy & Developmental Biology, Department of Oral Biology.

2015-2020 **Teaching Assistant**, *Yonsei University*, College of Dentistry, Division of Anatomy

& Developmental Biology, Department of Oral Biology.

Education

Aug 2019 **Ph.D.**, Department of Applied life Science, *Yonsei University, Thicknesses of the facial*

skin and subcutaneous tissue using three-dimensional scanning, Committee: Kyung-

seok Hu(advisor)

Feb 2011 **B.S.**, Physics, Incheon University

Research Papers

Journal Publications

Anatomy Research with Ultrasonography and Deep Learning

• Lee KW, Lee HJ, Hu H, Kim HJ. "Analysis of facial ultrasonography images based on deep learning." Scientific Reports. 2022 Oct 1;12(1):16480.

Anatomy Research with Ultrasonography and 3D Scan Data

- Choi YJ, We YJ, Lee HJ, **Lee KW**, Gil YC, Hu KS, Tansatit T, Kim HJ. "Three-Dimensional Evaluation of the Depressor Anguli Oris and Depressor Labii Inferioris for Botulinum Toxin Injections." Aesthetic Surgery Journal. 2021 May 18;41(6):NP456-NP461.
- Cho Y, Lee HJ, **Lee KW**, Lee KL, Kang JS, Kim HJ. "Ultrasonographic and Three-Dimensional Analyses at the Glabella and Radix of the Nose for Botulinum Neurotoxin Injection Procedures into the Procerus Muscle." Toxins. 2019 Sep 24;11(10):560.
- Lee KW, Kim SH, Gil YC, Hu KS, Kim HJ. "Validity and reliability of a structured-light 3D scanner and an ultrasound imaging system for measurements of facial skin thickness." Clinical Anatomy. 2017 Oct;30(7):878-886.

Anatomy Research with Ultrasonography

 Hormazabal-Peralta A, Lee KW, Lee HJ, Choi YJ, Hu KS, Kim HJ. "Clinical anatomy considerations on the muscular and vascular components of the midface by ultrasonographic imaging." Clinical Anatomy. 2021 Nov;34(8):1142-1149.

- Choi YJ, **Lee KW**, Gil YC, Hu KS, Kim HJ. "Ultrasonographic Analyses of the Forehead Region for Injectable Treatments." Ultrasound in Medicine and Biology. 2019 Oct;45(10):2641-2648.
- Lee HJ, Choi YJ, **Lee KW**, Hu KS, Kim ST, Kim HJ. "Ultrasonography of the internal architecture of the superficial part of the masseter muscle in vivo." Clinical Anatomy. 2019 Apr;32(3):446-452.

Anatomy Research with 3D Scan Data

- Lee KW, Yoon JH, Kim JS, Hu KS, Kim HJ. "Three-dimensional topography of facial soft tissues for the safer and effective threading procedures." Clinical Anatomy. 2021 Oct;34(7):1050-1058.
- Lee HJ, **Lee KW**, Tansatit T, Kim HJ. "Three-Dimensional Territory and Depth of the Corrugator Supercilii: Application to Botulinum Neurotoxin Injection." Clinical Anatomy. 2020 Jul;33(5):795-803.
- Kim YS, **Lee KW**, Kim JS, Gil YC, Tansatit T, Shin DH, Kim HJ. "Regional thickness of facial skin and superficial fat: Application to the minimally invasive procedures." Clinical Anatomy. 2019 Nov;32(8):1008-1018.

Sports Performance Analysis Research with Ultrasonography

- Lee HJ, **Lee KW**, Takeshi K, Lee YW, Kim HJ. "Correlation analysis between lower limb muscle architectures and cycling power via ultrasonography." Scientific Reports. 2021 Mar 8;11(1):5362.
- Lee HJ, **Lee KW**, Lee YW, Kim HJ. "Correlation between Cycling Power and Muscle Thickness in Cyclists." Clinical Anatomy. 2018 Sep;31(6):899-906.

Gross Anatomy Research

- Lee JH, **Lee KW**, Yi KH, Lee HJ. "Anatomical analysis of the intramuscular distribution patterns of the levator scapulae and the clinical implications for pain management." Surgical and Radiologic Anatomy. 2023 Jul;45(7):859-864.
- **Lee KW**, Choi YJ, Lee HJ, Gil YC, Kim HJ, Tansatit T, Hu KS. "Classification of unusual insertion of the pectoralis minor muscle." Surgical and Radiologic Anatomy. 2018 Dec;40(12):1357-1361.
- Lee HJ, Choi YJ, **Lee KW**, Kim HJ. "Positional Patterns Among the Auriculotemporal Nerve, Superficial Temporal Artery, and Superficial Temporal Vein for use in Decompression Treatments for Migraine." Scientific Reports. 2018 Nov 8;8(1):16539.
- Gil YC, **Lee KW**, Chang DY, Park SH, Kim HJ, Kim HM. "Positional relationship between the pectoralis major and external abdominal oblique muscles for consideration during dual-plane breast augmentation." Clinical Anatomy. 2018 Apr;31(3):339-346.

Presentations

2023 **Lee KW**, Kim HJ, Hu KS. "Statistical Shape Modeling and Facial Reconstruction using Multinational Data." Podium presentation at the 66th annual meeting of Korean Association of Physical Anthropologists

- **Lee KW**, Hu KS. "Constructing Three-Dimensional Color Human Model Employment of *Visible Human Project.*" Podium presentation at the 71th annual meeting of Korean Association of Anatomists.
- **Lee KW**, Lee JH, Ahn HS, Hormazabal-Peralta A, Hu KS, Kim HJ. "Creating 3D Cadaver Models Without a 3D Scanner Using Photogrammetry." Podium presentation at the 70th annual meeting of Korean Association of Anatomists.
- **Lee KW**, Kim YS, Kim JS, Gil YC, Tansatit T, Shin DH, Kim HJ. "Regional Thickness of Facial Skin and Superficial Fat: Application to the Minimally Invasive Procedures." Poster presentation at 15th Congress of the European Association of Clinical Anatomy.
- **Lee KW**, Park HJ, Tansatit T, Kim HJ." Submental Artery Passing the Mandibular Border and Its Clinical Implications." Podium presentation at 8th Asia Pacific International Congress of Anatomists.
- **Lee KW**, Kim SH, Gil YC, Hu KS, Kim HJ. "Validation and reliability of a structured light scanner and ultrasound imaging system in facial skin thickness measurement." Poster presentation at 13th Congress of the European Association of Clinical Anatomy.
- **Lee KW**, Choi YJ, Seo Kyle, Kim HJ, Hu KS. "Classification of Unusual the Insertion of The Pectoralis Minor Muscle." Poster presentation at 33rd American Association of Clinical Anatomists.