

Akihiko Oharazawa

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PROFILE

Place Tokyo, Japan
Websites [Google Scholar](#), [ORCID](#)
Research Interest Computer vision, 3D image reconstruction, Human-Computer Interaction, Skin Appearance, Dermatology, Cosmetology
Languages Japanese (Native), English (Business)

EDUCATION

2015-2017 **Master's degree**
in Health and Sports Science
University of Tsukuba, Advisor: *Hideaki Soya*

2011-2015 **Bachelor**
in Health and Sports Science
University of Tsukuba, Advisor: *Hideaki Soya*

CONFERENCE PUBLICATIONS (Peer-Reviewed)

2024 **Oharazawa A**, Maimaituxun G, Watanabe K, Nishiyasu T, Fujii N. Changes in metabolites in skin interstitial fluid during local skin heating: A metabolomic insight. **2024 SID Annual Meeting**, Dallas USA, 2024. 5

2022 Yasumori H, Hattori K, Igarashi T, **Oharazawa A**, Kikuchi M, Nagashima Y, Osugi Y, Tamura E. Sensory classification of lip color and physiological considerations. **The 17th Japan Society of KanseiEngineering Spring Conference**, Iwate Japan, 2022. 3

2019 **Oharazawa A**, Ogino M, Sugawara M, Tanahashi M. Development of microscopic capillary quantification technology. **The 58th Japanese Society for Medical and Biological Engineering**, Okinawa Japan, 2019

2019 Kazama H, Amano Y, Watanabe D, **Oharazawa A**, Tanahashi M, Sugiyama Y, Higuchi K. Relationship between capillary reactivity to carbonic acid treatment and skin conditions. **The 19th Annual Meeting of the Japanese Society of Anti-Aging Medicine**, Kanagawa Japan, 2019

2015 **Oharazawa A**, Lee MC, Okamoto M, Soya H: Benefit of high intensity interval training for enhancing spatial learning and memory. **European College of Sport Science (ECSS)**, 2015, Malmo Sweden, 2015. 6.

2015 **Oharazawa A**, Lee MC, Soya H. High-intensity interval training to enhance hippocampal function. **The 70th Japan Society of Physical Fitness and Sports Medicine**, Wakayama Japan, 2015. 9

JOURNALS (Peer-Reviewed)

- 2024 **Oharazawa A**, Maimaituxun G, Watanabe K, Nishiyasu T, Fujii N: Metabolome analysis of skin dialysate: insights into skin interstitial fluid biomarkers. **Journal of Dermatological Science**, 2024
- 2021 Okamoto M, Mizuuchi D, Omura K, Lee MC, **Oharazawa A**, Yook JS, Inoue K, Soya H: High-intensity intermittent training enhances spatial memory and hippocampal neurogenesis associated with BDNF signaling in rats. **Cerebral Cortex**, 2021
- 2020 **Oharazawa A**, Ogino M, Sugahara M, Tanahashi M: Skin capillary extraction technique based on independent component analysis and Frangi filter using videomicroscopy. **Skin Research and Technology**, 26(5), 664-670. 2020 (Accepted as Cover image)

BOOKS

- 2021 **Oharazawa A**. Techniques for evaluating vascular function of the skin and their applications. **FRAGRANCE JOURNAL**, vol.49(9), 2021 (Also published in Korean edition)
- 2020 **Oharazawa A**, Kazama H. Blood flow regulation function and its relationship to the skin. **FRAGRANCE JOURNAL**, vol.48(11), 2020 (Also published in Korean edition)
- 2016 Suwabe K, Fukuie T, Koizumi H, **Oharazawa A**, Soya H. Issues in Growth and Development Research from the Perspective of Brain Science - Based on the Effects of Exercise to Promote Integrated Mental and Physical Development. **Japan Society of Human Growth and Development**, vol.14(2), 92-100, 2016

PATENT (Published patents only)

- 2023 WO24-019101, Information Presentation Method and Information Presentation Device: **Oharazawa A**, Kikuchi S
- 2023 P2023-117376, Information Presentation Method and Information Presentation Device: **Oharazawa A**, Kikuchi S
- 2022 P2022-046771, Lip Evaluation Method: **Oharazawa A**, Yasumori H, Igarashi T, Kaida K, Osugi Y, Tamura Y
- 2022 P2022-086627, Lip Evaluation Method: **Oharazawa A**, Yasumori H, Igarashi T, Kaida K, Osugi Y, Tamura Y
- 2019 P2019-039939, Image Processing Method: **Oharazawa A**, Ogino M

TECHNICAL SKILLS

- Expertise in imaging, computer vision, physiology, and optical measurement of the skin
- High level of expertise in biology, biochemistry and neuroscience
- Machine learning proficiency in scikit-learn, TensorFlow, Keras, and PyTorch
- Strong programming skills in python, R

EMPLOYMENT EXPERIENCE

- 2017- **Research Scientist**
Development Research - Skin Care Products Research
Kao Corporation
- 2016 **R&D Internship**
Medical Business Group
Sony Corporation