

Emon Heidari

ASSOCIATE

Patents and
Innovations
San Diego

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FOCUS AREAS

Digital Health
Intellectual Property
Life Sciences
Medical Devices
Patents and Innovations

EXPERIENCE

Dr. Emon Heidari is an associate in the San Diego office of Wilson Sonsini Goodrich & Rosati, where he is a member of the firm's patents and innovations practice. Prior to joining the firm, Emon was a George Hewitt postdoctoral fellow in the laboratory of Brian J.F. Wong at The Beckman Laser Institute. His research areas included investigating the in-situ and in-vivo electrochemical effect of adipose lipolysis. His doctoral work focused on developing high-resolution non-invasive optical imaging systems and probes to track changes in anatomy and physiology of developing disease states.

CREDENTIALS

Education

- J.D., University of San Diego School of Law, 2025
Concentration in Intellectual Property Law
- Ph.D., Biomedical Engineering, University of California, Irvine, 2018
- B.S., Biomedical Engineering, University of California, Irvine, 2010

Admissions

- State Bar of California
- U.S. Patent and Trademark Office

INSIGHTS

Select Publications

- Co-author with T.T. Pham, I. Ifegwu, R. Burwell, W.B. Armstrong, T. Tjoa, S. Whyte, C. Giorgioni, B. Wang, B.F.G. Wong, and Z. Chen, "The Use of Optical Coherence Tomography and Convolutional Neural Networks to Distinguish Normal and Abnormal Oral Mucosa," 13(3) *Journal of Biophotonics*, 2020
- Co-author with S.P. Sunny, B.L. James, et al., "Optical Coherence Tomography as an Oral Cancer Screening Adjunct in a Low Resource Settings," 25(1):1-8 *Institute of Electrical and Electronic Engineers*, 2019
- Co-author with S. Moghaddam, K.K. Truong, L. Chou, C. Genberg, M. Brenner, and Z. Chen, "Visualizing Biofilm Formation in Endotracheal Tubes Using Endoscopic Three-Dimensional Optical Coherence Tomography," 20(12) *Journal of Biomedical Optics*, 2015
- Co-author with S.W. Lee, D. Yoon, D. Mukai, R. Tirunelveli, S. Mahon, J. Yin, G. Liu, Z. Chen, and M. Brenner, "Quantification of Airway Thickness Changes in Smoke-Inhalation Injury Using In-Vivo 3-D Endoscopic Frequency-Domain Optical Coherence Tomography," 2(2) *Biomedical Optics Express*, 2011
- Co-author with T.T. Pham, A.A. Hakimi, Y. Li, C. Heilbronn, E. Hong, J.H. Mo, Z. Chen, and B.F.G. Wong, "Optical Coherence Tomography Visualization of Olfactory Mucosa and Cribriform Foramina in an Ex Vivo Rabbit Model," Submitted to *American Journal of Rhinology & Allergy*, 2019

TECHNICAL FLUENCY

Diagnostics and Medical Devices

- Biomedical devices
- Biomedical engineering
- Biosensors
- Diagnostics
- Digital pathology
- Medical devices
- Medical imaging
- Neuroimaging
- Point-of-care testing (POCT)
- Telemedicine technology
- Wearable analyte sensors

Engineering and Technology

- 3D bioprinting
- AI
- Biomechanics
- Machine learning
- Microfluidics
- Nanorobotics
- Robotics

Genomics and Data Analysis

- Next-generation sequencing
- Sequencing

Miscellaneous

- Cancer
- Design patent
- Fluorescence microscopy
- Ophthalmology
- Physics