

Stanford



Sanaz Nazari Farsani

Postdoctoral Scholar, Molecular Imaging Program at Stanford

Bio

BIO

Dr. Nazari Farsani works on developing and implementing machine learning techniques for automated tissue segmentation from brain PET/MR images. She is also developing machine learning algorithms for PET data correction and de-noising.

HONORS AND AWARDS

- Learning to Detect and Segment Brain Lesions with Tailored Context-Aware Deep Neural Networks, Finnish Academy of Science and Letters (2021)
- Radiostereometric analysis of femoral stem migrations, Turku University Hospital State Funding (2020)
- Imaging of the stability of uncemented femoral stems after hip replacement, Instrumentarium Foundation (2017)
- Imaging of the stability of uncemented femoral stems after hip replacement, Finnish Cultural Foundation (2017)
- Radiostereometric analysis of femoral stem migrations, University of Turku Foundation (2017)
- Gender issue in total hip arthroplasty, Suomen Artroplastiayhdistys (2016)
- Neuronavigation in rTMS treatment of tinnitus, Tekniikan edistämissäätiö (Finnish Foundation for Technology Promotion) (2015)

PROFESSIONAL EDUCATION

- Master of Science, Abo Akademi (2020)
- Doctor of Philosophy, University Of Turku (2020)
- Ph.D., University of Turku , Biomedical Imaging (2020)
- M.Sc., Åbo Akademi University , Biomedical Imaging (2014)
- B.Sc., Azad University , Biomedical Engineering, Bioelectric (2012)

STANFORD ADVISORS

- Craig Levin, Postdoctoral Faculty Sponsor

LINKS

- LinkedIn: <https://www.linkedin.com/in/sanaz-nazari-farsani-776475b8/>
- ResearchGate: <https://www.researchgate.net/profile/Sanaz-Nazari-Farsani>
- Google Scholar: <https://scholar.google.com/citations?user=84vPzIwAAAAJ&hl=en>

Publications

PUBLICATIONS

- **Decoding Music-Evoked Emotions in the Auditory and Motor Cortex.** *Cerebral cortex (New York, N.Y. : 1991)*
Putkinen, V., Nazari-Farsani, S., Seppälä, K., Karjalainen, T., Sun, L., Karlsson, H. K., Hudson, M., Heikkilä, T. T., Hirvonen, J., Nummenmaa, L.
2021; 31 (5): 2549-2560
- **Contributing factors to the initial femoral stem migration in cementless total hip arthroplasty of postmenopausal women** *JOURNAL OF BIOMECHANICS*
Nazari-Farsani, S., Vuopio, M., Loyttyniemi, E., Aro, H. T.
2021; 117: 110262
- **Denosumab in Prevention of Implant Migration** *JOURNAL OF BONE AND MINERAL RESEARCH*
Aro, H. T., Nazari-Farsani, S., Loyttyniemi, E.
2020; 35 (9): 1824–25
- **Bone Mineral Density and Cortical-Bone Thickness of the Distal Radius Predict Femoral Stem Subsidence in Postmenopausal Women** *JOURNAL OF ARTHROPLASTY*
Nazari-Farsani, S., Vuopio, M. E., Aro, H. T.
2020; 35 (7): 1877-+
- **RSA of the Symax hip stem** *ACTA ORTHOPAEDICA*
Aro, H. T., Nazari-Farsani, S.
2020; 91 (4): 497–99
- **Automated segmentation of acute stroke lesions using a data-driven anomaly detection on diffusion weighted MRI** *JOURNAL OF NEUROSCIENCE METHODS*
Nazari-Farsani, S., Nyman, M., Karjalainen, T., Bucci, M., Isojarvi, J., Nummenmaa, L.
2020; 333: 108575
- **Effect of Denosumab on Femoral Periprosthetic BMD and Early Femoral Stem Subsidence in Postmenopausal Women Undergoing Cementless Total Hip Arthroplasty.** *JBMR plus*
Aro, H. T., Nazari-Farsani, S., Vuopio, M., LöyTTYniemi, E., Mattila, K.
2019; 3 (10): e10217
- **Simplified Automated Segmentation of Acute Ischemic Stroke Lesions from Multimodal MRI: A knowledge-based learning approach**
Nazari-Farsani, S., Nyman, M., Karjalainen, T., Bucci, M., Isojarvi, J., Nummenmaa, L., IEEE
IEEE.2019
- **Is Model-based Radiostereometric Analysis Suitable for Clinical Trials of a Cementless Tapered Wedge Femoral Stem?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Nazari-Farsani, S., Finnila, S., Moritz, N., Mattila, K., Alm, J. J., Aro, H. T.
2016; 474 (10): 2246–53
- **AvanTomography: A Compact Module for Positron Emission Mammography**
Us, D., Moreno-Galera, A., Nazari-Farsani, S., Palovuori, K., Kosola, H., Zedda, T., Ruotsalainen, U., IEEE
IEEE.2015: 52–57