Stanford

Kerem Nernekli

Postdoctoral Scholar, Radiology

Bio

BIO

Dr. Nernekli has a wide-ranging research background encompassing molecular imaging, surgical neuroanatomy, clinical outcome studies, and machine learning, focusing on medical image reconstruction and multimodal deep learning algorithms for classification and segmentation tasks. Currently, he is focused on investigating novel radiotracer and activatable Gd-based contrast agents to detect senescence in large animal models with PET/MRI. Furthermore, Dr. Nernekli is exploring the potential of ferumoxytol-MRI and two-photon microscopy to correlate theranostic nanoparticles in their natural environment in order to gain a deeper understanding of their interactions with tumor-associated microenvironments.

PROGRAM AFFILIATIONS

- SPARK at Stanford

PROFESSIONAL EDUCATION

- Medical Degree, Gazi University Faculty of Medicine (Ankara/Turkey) (2020)

STANFORD ADVISORS

- Heike Daldrup-Link, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Musculoskeletal imaging of senescence.** *Skeletal radiology*
  Daldrup-Link, H. E., Suryadevara, V., Tanyildizi, Y., Nernekli, K., Tang, J. H., Meade, T. J.
  2024

- **Beyond human in neurosurgical exams: ChatGPT's success in the Turkish neurosurgical society proficiency board exams.** *Computers in biology and medicine*
  Sahin, M. C., Sozer, A., Kuzucu, P., Turkmen, T., Sahin, M. B., Sozer, E., Tufek, O. Y., Nernekli, K., Emmez, H., Celtikci, E.
  2023; 169: 107807

- **Cytodifferentiation of pituitary tumors influences pathogenesis and cavernous sinus invasion.** *Journal of neurosurgery*
  Asmaro, K., Zhang, M., Rodrigues, A. J., Mohyeldin, A., Vigo, V., Nernekli, K., Vogel, H., Born, D. E., Katznelson, L., Fernandez-Miranda, J. C.
  2023: 1-9

- **A simple technique for generating 3D endoscopic images.** *Surgical neurology international*
  Campero, A., Baldoncini, M., Villalonga, J. F., Nernekli, K., Pipolo, D. O., Forlizzi, V., Fernandez-Miranda, J. C.
  2023; 14: 54