

AI-Empowered MRI for Early Diagnosis of Alzheimer's Disease

We are seeking highly motivated individuals passionate about advancing AI-powered MRI techniques for early diagnosis and understanding of Alzheimer's disease, other pathological conditions, and brain tissue microstructure and functioning.

Position Overview: In this role, you will:

- Play a pivotal role in refining and utilizing our AI-powered advanced MRI methods to study human brain cellular microstructure and functioning.
- Contribute to multi-disciplinary research on Alzheimer's disease, multiple sclerosis, and other CNS conditions.
- Engage in image acquisition with clinical MRI scanners, post-process and analyze imaging data, and develop innovative AI-powered approaches for data analysis and MRI acquisition techniques.

Qualifications:

- PhD in Biomedical Engineering, Physics, Neuroscience, or related fields.
- Experience with MRI and proficiency in computer programming languages such as MATLAB, Python, or C/C++.
- Familiarity with machine learning and Siemens MRI sequence programming is desirable.
- Self-motivated, enthusiastic, and capable of working independently as well as collaboratively within a multi-disciplinary team of MRI physicists, computer scientists, radiologists, neuroscientists, and clinicians at Washington University School of Medicine.

Facilities and Resources:

- Access to 7T human MRI scanner, several human 3T MRI scanners, 3T human PET-MR scanner, and preclinical MRI and PET facilities.
- Opportunities for learning from experts in diverse research areas and pursuing a career in academia or industry.

Application Process: Interested candidates should email their CV and a list of three references to:

Dmitriy A. Yablonskiy, PhD
Professor of Radiology and Biomedical Engineering
Mallinckrodt Institute of Radiology
Washington University School of Medicine
4525 Scott Ave, Room 3216
St. Louis, MO 63110

e-mail: YablonskiyD@wustl.edu

Further information about our work and publications can be found at:

[Dmitriy A. Yablonskiy - Mallinckrodt Institute of Radiology - Washington University School of Medicine in St. Louis \(wustl.edu\)](#)

[Dmitriy Yablonskiy - Google Scholar](#)