Dhruman D. Goradia, PhD

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PROFESSIONAL SUMMARY

Detailed, focused and result-oriented Neuroimaging Scientist with 18+ years of experience in MRI/PET data acquisition, quality assurance and advanced image analysis. Proven record in leading MRI research projects and clinical trials support. Skilled in MRI protocol development, Image management methods, and advanced AI-driven analysis. Experienced in leading MRI research initiatives, supporting technologists, mentoring students, and implementing innovative MRI processing techniques.

EXPERIENCE

Bioinformatics Scientist, Banner Alzheimer's Institute, Phoenix, AZ — 2023 - Present

- Support MRI and PET data acquisition, image QC, and protocol optimization for clinical research studies.
- Collaborate with MR physicists and technologist to implement and evaluate new protocols.
- Assist external investigators in implement and maintaining fMRI equipment and protocols.
- Develop machine learning/deep learning methods for biomarker extraction and data harmonization.
- Develop pipelines and workflows for MRI and PET imaging data processing, QC and analysis.
- Train intern and students in MRI/PET fundamentals and advanced imaging workflows.
- Prepare manuscripts, grant applications, and standard operating procedure documents.

Director of MRI Research, PrimeNeuro Inc, Durham, NC — 2020 - 2023

- Directed MRI processing and analysis operations for pediatric MRI studies (infant/toddler data).
- Developed pipeline and workflows for structural and functional MRI; deployed scalable pipelines on AWS using Docker.
- Established QC standards for incoming MRI data as well as processed output data.
- Collaborated with data scientists to develop machine learning models for early-diagnosis of Autism.
- Trained and supervised data analyst; ensured compliance with HIPAA regulations and IRB protocols.

Bioinformatics Scientist, Banner Alzheimer's Institute, Phoenix, AZ — 2015 - 2020

- Supported MRI and PET data acquisition, image QC, and protocol optimization for clinical research studies.
- Collaborated with MR physicists and technologist to implement and evaluate new protocols.
- Assist external investigators in implement and maintaining fMRI equipment and protocols.

- Explored machine learning/deep learning methods for analysis of neuroimaging data.
- Developed pipelines and workflows for MRI and PET imaging data processing, QC and analysis.
- Trained intern and students in MRI/PET fundamentals and advanced imaging workflows.
- Prepared manuscripts, grant applications, and standard operating procedure documents.

Graduate Research Assistant, Wayne State University, Detroit, MI — 2009 - 2015
- Assisted with MRI data acquisition, QC and analysis.
- Installed and evaluated novel multi-band squence on Siemens Tim Trio 3T scanner.
- Developed workflows and pipelines of analysis of multimodal MRI data.
- Managed lab equipments including servers and computer systems.
- Maintained and updated codebase for MRI data processing and analysis.
- Prepared manuscripts for publication and assisted in grant writing.
- Trained and supervised undergraduate students and volunteers in data processing and analysis workflows.

Sr. Research Assistant, University of Pittsburgh Medical Center, Pittsburgh, PA — 2005 - 2009
- Managed MRI data acquisition, processing and analysis for multiple research studies.
- Established and evaluated MRI data acquisition protocols for multiple research studies.
- Developed workflows and pipelines for MRI data processing and analysis.
- Established QC standards for incoming MRI data as well as processed output data.
- Managed lab equipments including servers and computer systems.
- Developed and maintained codebase for MRI data processing and analysis.
- Assisted with preparation of manuscripts, grant writing, and standard operating procedure documents.
- Trained and supervised students and volunteers in data processing and analysis workflows.

EDUCATION

- PhD in Translational Neuroscience, Wayne State University School of Medicine, 2015
- MS in Biomedical Engineering, Wright State University, 2005
- BE in Instrumentation Engineering, Mumbai University, 2001

KEY SKILLS

- MRI protocol development, MRI QA & Safety, Imaging processing and Analysis.
- Machine Learning, Deep Learning, Cloud computing (AWS, Azure), Python, R, Shell Scripts, Docker, Git, BIDS, DICOM, NIFTI, PACS

PROFESSIONAL MEMBERSHIP

International Society for Magnetic Resonance in Medicine (ISMRM) - Since 2013

PUBLICATIONS

25+ peer-reviewed neuroimaging research publications in top tier journals. Full list available at: https://scholar.google.com/citations?hl=en&user=wsEyLhsAAAAJ