Dan WU

EDUCATION

09/2011-03/2015	Ph.D., Biomedical Engineering, Johns Hopkins University
03/2013-05/2014	Master, Electrical and Computer Engineering, Johns Hopkins University
09/2009-05/2011	Master, Biomedical Engineering, Johns Hopkins University
09/2004-06/2009	Bachelor of Science, Biomedical Engineering, Zhejiang University

PROFESSIONAL EXPERIENCE

07/2018-present	Research Professor, Department of Biomedical Engineering, Zhejiang University
09/2016- 07/2018	Assistant Professor, Department of Radiology, Johns Hopkins University
08/2015-08/2016	Research Associate, Department of Radiology, Johns Hopkins University
03/2015-07/2015	Postdoc Fellow, Department of Radiology, Johns Hopkins University

HONORS, AWARDS, FELLOWSHIPS

2019	Awardee of Innovators under 35 China by MIT Technology Review
2018	Awardee of the Thousand Young Talents Program of China
2016	Junior Fellow of International Society of Magnetic Resonance in Medicine (ISMRM)
2016	Summa Cum Laude Merit Award of the 24th ISMRM Annual Meeting, Singapore
2016	Magna Cum Laude Merit Award of the 24th ISMRM Annual Meeting, Singapore
2016	Distinguished Reviewer for Journal of Magnetic Resonance Imaging
2016	Merit Travel Award of the 2016 Human Brain Mapping Annual Meeting, Geneva
2014-16	Howard Hughes Medical Institute (HHMI) International Student Fellowship
2015	Summa Cum Laude Merit Awards of the 23rd ISMRM Annual Meeting, Toronto, Canada
2014	Hairball Award of the Johns Hopkins Radiology MRI Division Annual Retreat
2014	1st place Poster Award in Diffusion Study Group of the 22nd ISMRM Annual Meeting, Milan, Italy
2013	Summa Cum Laude Merit Award of the 21st ISMRM Annual Meeting, Melbourne, Australia
2013	Travel Award of the ISMRM Diffusion MRI Workshop, Podstrana, Croatia
2011	Travel Award of the IEEE EMBS Neural Engineering Meeting, Boston
2009-10	Andrew and Elvira Bozzelli Fellowship, Johns Hopkins University

SELECTED JOURNAL PUBLICATIONS

1. Zhang H, Lai C, Liu R, Liu T, Niu W, Oishi K, Zhang Y, **Wu D**✉. Age-specific optimization of T1-weighted brain MRI throughout infancy. *NeuroImage*, 2019, 199:387-395.
2. **Wu D**✉, Zhang J. Evidence of the Diffusion Time Dependence of Intravoxel Incoherent Motion in the Brain. *Magnetic Resonance in Medicine*, 2019, 82(6):2225-2235.
3. **Wu D**✉, et al. Multi-atlas based detection and localization (MADL) for location-dependent quantification of white matter hyperintensities. *NeuroImage:Clinical*, 2019, 22:101772.
4. **Wu D**, et al. Oscillating-gradient Diffusion MRI Detects Acute Subcellular Structural Changes in the Mouse Forebrain after Neonatal Hypoxia-Ischemia (2018). *Journal of Cerebral Blood Flow & Metabolism*, 39(7):1336-1348.
5. **Wu D**✉, et al. Dynamic Glucose Enhanced MRI of the Placenta in a Mouse Model of Intrauterine Inflammation (2018). *Placenta*, doi:10.1016/j.placenta.2018.07.012
6. **Wu D**, et al. Oscillating Gradient Diffusion Kurtosis Imaging of Normal and Injured Mouse Brains (2018). *NMR in Biomedicine*, doi:10.1002/nbm.3917.
7. Zhang J, **Wu D**, Turnbull DH. In Utero MRI of Mouse Embryos (2018). *Methods in Molecular Biology*, 1718:285-296.
8. **Wu D**✉, et al. Whole-brain Segmentation and Change-point Analysis of Anatomical Brain MRI—Application

in Premanifest Huntington's Disease (2018). *Journal of Visualized Experiments*, doi:10.3791/57256.

9. **Wu D**✉, et al. *In vivo* assessment of the placental anatomy and perfusion in a mouse model of intrauterine inflammation (2017). *Journal of Magnetic Resonance Imaging*, doi:10.1002/jmri.25867.
10. **Wu D**✉, et al. Mapping the order and pattern of structural MRI changes in the brain using change-point analysis in premanifest Huntington's Disease (2017). *Human Brain Mapping*, 38(10):5035-5050.
11. **Wu D**, et al. Mapping the Critical Gestational Age at Birth that Alters Brain Development in Preterm-born Infants using Multi-Modal MRI (2017). *NeuroImage*, 149:33-43.
12. **Wu D** and J Zhang. The Effect of Microcirculatory Flow on Oscillating Gradient Diffusion MRI and Diffusion-Encoding with Dual-Frequency Orthogonal Gradients (DEFOG) (2017). *Magnetic Resonance in Medicine*, 77(4):1583-1592.
13. **Wu D**, et al. Direct Estimation of Patient Attributes from Anatomical MRI Based on Multi-Atlas Segmentation Framework (2016). *NeuroImage Clincial*, 12:570-81
14. Mori S, **Wu D**, et al. MRICloud: Delivering High-Throughput MR Imaging Neuroinformatics as a Cloud-based Software-as-a-Service (2016). *IEEE Computing in Science and Engineering*, 18(5):21-35
15. **Wu D** and Zhang J. Recent Progress in Magnetic Resonance Imaging of the Embryonic and Neonatal Mouse Brain (2016). *Frontiers in Neuroanatomy*, doi:10.3389/fnana.2016.00018
16. **Wu D**, et al. Resource atlases for multi-atlas brain segmentations with multiple ontology levels based on T1-weighted MRI (2015). *NeuroImage*, 125:120-30.
17. **Wu D** and J Zhang. In vivo mapping of the mouse intra-hippocampal connectivity using diffusion MRI (2015). *NeuroImage*, 125:84-93.
18. **Wu D**✉, et al. In utero localized diffusion MRI of the embryonic mouse brain microstructure and injury (2015). *Journal of Magnetic Resonance Imaging*, 42(3):717-28.
19. **Wu D**, et al. Oscillating gradient diffusion MRI reveals unique microstructural information in the normal and hypoxia-ischemia injured mouse brains (2014). *Magnetic Resonance in Medicine*, 72(5):1366-74
20. **Wu D**, et al. Localized diffusion magnetic resonance micro-imaging of the live mouse brain (2014). *Neuroimage*, 91:12-20
21. **Wu D**, et al. In vivo high-resolution diffusion tensor imaging of the mouse brain (2013). *Neuroimage*, 83:18-26

FUNDING SUPPORTS

1. SQ2018YFE011108, International Collaboration Key Projection in Ministry of Science and Technology of China, Role: PI, Brain Microstructural Imaging based on Diffusion MRI 11/01/2019-12/31/2022
2. 81971606， National Science Foundation of China Role: PI 01/01/2020-12/31/2023
Time-dependent Diffusion MRI and its Application in Neonatal Hypoxia-Ischemia
3. 61801424 National Science Foundation of China Role: PI 01/01/2019-12/30/2021
Multi-contrast Multi-atlas based Quantification of Infant Brain MRI
4. 91859201 National Science Foundation of China Role: site PI 01/01/2019-12/30/2022
Intelligent diagnosis and molecular imaging monitoring of thermo-chemotherapy for liver cancer by ultrasound
5. *R01 NS107417* NIH/NINDS Role: PI 07/01/2018-06/30/2023
Brain Microstructural MRI in a Piglet Model of Hypoxia-Ischemia
6. *R03 AG060340* NIH/NIA Role: PI 07/01/2016-06/30/2020
Multi-atlas based Direct Estimation in Preclinical Alzheimer's Disease
7. *R21 NS098018* NIH/NINDS Role: PI 07/01/2016-06/30/2018
In-utero characterization of embryonic mouse brain development and injury using MRI