CHUNMING GU

Phone: (443) 278-3016 716 N Broadway cgu15@jhmi.edu Baltimore, MD 21205

EDUCATION

Ph.D. Johns Hopkins University, Biomedical Engineering 2018-Present

B.Eng. Xi'an Jiaotong University, Biomedical Engineering
Graduated with the highest distinction

2014-2018

RESEARCH EXPERIENCE

Graduate Research Assistant

08/2018-Present

F.M. Kirby Research Center for Functional Brain Imaging

Kennedy Krieger Institute, Baltimore, MD, USA

The Russell H. Morgan Department of Radiology and Radiological Sciences

Johns Hopkins University School of Medicine, Baltimore, MD, USA

Advisor: Dr. Jun Hua

Undergraduate Dissertation

02/2018-05/2018

Institute of Biomedical Engineering and Informatics (BMTI) Technische Universität Ilmenau, Ilmenau, Thüringen, Germany Advisor: Lorenz Esch, Daniel Strohmeier

- Project: Implementation and validation of functional brain connectivity measures for Electroencephalography (EEG) and Magnetoencephalography (MEG) data
- The implementation was performed in the open-source MNE-CPP project, written in C++. The validation of the resulting algorithms made use of existing EEG and MEG datasets.

Summer Research Student

07/2017-09/2017

Department of Radiological Sciences

David Geffen School of Medicine, University of California, Los Angeles, CA, USA Advisor: Dr. Peng Hu, Dr. Yingli Yang, Yu Gao

- Cross-disciplinary Scholars in Science and Technology Program (CSST)
- Project: Longitudinal Diffusion MRI for Predicting Response to Radiotherapy in Sarcoma Patients

Visiting Student

06/2016-07/2016

Faculty of Pharmaceutical Sciences University of British Columbia (UBC), Vancouver, BC, Canada

TEACHING EXPERIENCE

Xi'an Jiaotong University, Xi'an, Shaanxi, China

12/2014-06/2015

Volunteer of Teaching Assistant and Academic Counselor

Undergraduate Academic Counseling Center, ChungYing College

- Offered tutorial lectures to a series of courses like Linear Algebra
- Awarded as one of the best volunteers at XJTU in 2016

HONORS AND AWARDS

New Entrant Stipend International Society for Magnetic Resonance in Medicine (ISMR	2018 M)
CSST Summer Research Fellowship University of California, Los Angeles	2017
Dean's Scholarship ChungYing College & Cyrus Tang Foundation	2017
The National Scholarship Top 2% of Chinese undergraduates	2015, 2016 and 2017

PUBLICATIONS

Journal Publications

- 1. S Zhang, R Xu, S Shang, Y Han, S Liu, T Xu, C Gu, X Zhu, G Niu, M Wan. In vivo monitoring of microwave ablation in a porcine model using ultrasonic differential attenuation coefficient intercept imaging. *International Journal of Hyperthermia*, 2018, 34:1-14.
- 2. S Zhang, S Shang, Y Han, C Gu, S Wu, S Liu, G Niu, A Bouakaz, M Wan. Ex vivo and in vivo monitoring and characterization of thermal lesions by high-intensity focused ultrasound and microwave ablation using ultrasonic Nakagami imaging. *IEEE Transactions on Medical Imaging*, 2018, 37(7):1701-1710.

Conference Proceedings

- 1. A Paez, S Rajan, G Chaney, X Miao, D Cao, C Gu, D Liu, A Pantelyat, L Rosenthal, Z Mari, K Mills, T Dawson, P van Zijl, S Bassett, D Yousem, V Kamath, and J Hua. Olfactory functional MRI (fMRI) using T2-prepared BOLD fMRI at ultra-high field (7T). International Society for Magnetic Resonance in Medicine, 2018.
- 2. Y Gao, C Gu, J Kim, M Cao, J Fu, A Kalbasi, D Ruan, et al. Treatment Response Prediction Using Texture Features from Longitudinal Diffusion MRI in Sarcoma Patients. In *MEDICAL PHYSICS*, vol. 45, no. 6, pp. E582-E582, 2018.

- 3. Y Gao, C Gu, J Kim, M Cao, A Kalbasi, D Ruan, D Low, P Hu, and Y Yang. Longitudinal Diffusion MRI for Predicting Response to Radiotherapy in Sarcoma Patients. *International Society for Magnetic Resonance in Medicine*, 2018.
- 4. S Zhang, S Shang, Y Han, R Xu, C Gu, L Zhang, S Wu, G Niu, and M Wan. In Vivo and Ex Vivo Monitoring of Thermal Ablation in a Porcine Model Using Ultrasonic Nakagami Imaging. *International Society for Therapeutic Ultrasound*, 2017.

Posters

- 1. K Zhang, L Chen, A Paez, X Miao, D Cao, C **Gu**, P van Zijl, A Bakker, and J Hua. Layer specific T2-prepared BOLD fMRI in the entorhinal cortex at 7T: initial results. *4th ICP network symposium*, 2019, Baltimore, MD, USA.
- 2. A Paez, S Rajan, G Chaney, X Miao, D Cao, C **Gu**, D Liu, A Pantelyat, L Rosenthal, Z Mari, K Mills, T Dawson, P van Zijl, S Bassett, D Yousem, V Kamath, and J Hua. Imaging the Olfactory Cortex at 7T. *MHSRS*, 2019, Kissimmee, FL, USA.

PRESENTATIONS AND INVITED LECTURES

- 1. **C Gu**, D Cao, A Paez, R Margolis, P van Zijl, C Ross and J Hua. Longitudinal Changes in Arteriolar Cerebral Blood Volume in Huntington's Disease. *4th ICP network symposium*, 2019, Baltimore, MD, USA.
- 2. **C Gu**, D Cao, A Paez, R Margolis, P van Zijl, C Ross and J Hua. Longitudinal Changes in Arteriolar Cerebral Blood Volume in Huntington's Disease. *22nd Annual Division of MR Research Retreat*, 2019, Cambridge, MD, USA.

PROFESSIONAL TRAINING

Philips Pulse Programming Environment Workshop

Philips Healthcare, Rochester, MN, USA, 2019

Philips SDM Workshop

Philips Healthcare, Rochester, MN, USA, 2019

PROFESSIONAL AFFILIATIONS

Member, International Society for Magnetic Resonance in Medicine (ISMRM), 2018-Present

COMMUNITY SERVICE

Undergraduate Academic Counseling Center

Director, ChungYing College, Xi'an Jiaotong University

07/2016-07/2017

LANGUAGES

Chinese: Native Language

English: Working Proficiency

Japanese: Reading Knowledge

COMPUTER SKILLS

Programming: C++, Python

Platforms: MATLAB, R

ACCOMPLISHMENTS

Coursera course certificates

- Data Science: The R Programming Environment, Managing Data Analysis, A Crash Course in Data Science, The Data Scientist's Toolbox, Data Science in Real Life
- Biology & Medicine: Understanding Cancer Metastasis, Introduction to the Biology of Cancer
- Imaging Science: Introduction to Neurohacking In R, Principles of fMRI 1, Fundamental Neuroscience for Neuroimaging

REFERENCE

Dr. Jun Hua, Associate Professor

F.M. Kirby Research Center for Functional Brain Imaging

Kennedy Krieger Institute

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Johns Hopkins University School of Medicine

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