Jinghang Li

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EDUCATION

University of Pittsburgh, Pittsburgh, Pennsylvania — August 2021 – Present
Graduate student in Biomedical Engineering

University of Pittsburgh, Pittsburgh, Pennsylvania — August 2016 – May 2021
B.S. in Biomedical Engineering

Carnegie Mellon University, Pittsburgh, Pennsylvania — August 2020 – December 2022
Non-degree/Visiting Student

Notable Scholastic Awards:

Bioengineering Teaching Assistant of the Year — Spring 2023
Swanson School of Engineering Dean's Honor List — Fall 2017 – 2020
Freshman Engineering Conference Best Paper Award — Spring 2017

RESEARCH INTERESTS

Computer Vision **Neurodegenerative Diseases** **RF Engineering**

PUBLICATIONS AND CONFERENCE PROCEEDINGS

Investigate Sex Dimorphism of Cerebral Myelination Across Lifespan by Leveraging Conditional Variational Autoencoder [short paper]
Jinghang Li, Linghang Wang, Chang-le Chen, Tamer Ibrahim, Howard Aizenstein, Minjie Wu
MIDL Short Paper, 2023

wmh_seg: Transformer based U-Net for Robust and Automatic White Matter Hyperintensity Segmentation across 1.5T, 3T and 7T [project]
Jinghang Li, Taylor Forry, Tales Santini, Yuanzhe Huang, Tamer Ibrahim, Howard Aizenstein, Minjie Wu.
In submission, 2023

Investigating white matter hyperintensities in a multicenter COVID-19 study using 7T MRI [abstact]
Jinghang Li, Jr-Jiun Liou, Tales Santini, Salem Alkateeb, Oluwatobi Adeyemi, Gabriel Erausquin, Valentina Garbarino, Monica Goss, Mohamad Habes, Jayandra Himali, Christof Karmonik, Karl Li, Joseph Masdeu, Rejani Nair, Vibhuti Patel, Beth Snitz, Howard Aizenstein, Minjie Wu , Richard Bowtell, Gowland Penny, Gustavo Roman, Mary Ganguli, Farhaan Vahidy, Timothy Girard, Heidi Jacobs Akram Hosseini, Sudha Seshadri and Tamer Ibrahim.
AAIC, Amsterdam, Netherland 2023 **(Oral Presentation)**

7T to 3T domain adaptation in white matter lesion segmentation on T2-weighted (T2-w) FLAIR images using deep learning [abstract]
Jinghang Li, Eduardo Diniz, Taylor Forry, Tamer Ibrahim, Howard Aizenstein, and Minjie Wu
ISMRM, Toronto, Canada 2023

Automatic Alignment Of Ex-Vivo Brain Pathology To 7T Structural MRI [abstract]
Jinghang Li, Nadim Farhat, Jacob P. Berardinelli, Joseph M. Mettenburg, Howard J. Aizenstein, Julia K. Kofler, and Tamer S. Ibrahim
ISMRM, Toronto, Canada 2023

Longitudinal Change Of White Matter-Specific Brain Age Is Associated With Alzheimer'S Disease-Related Regional Atrophy [abstract]

Chang-Le Chen, **Jinghang Li**, Linghai Wang, Noah Schweitzer, Dana Tudorascu, Howard Aizenstein, and Minjie Wu
ISMRM, Toronto, Canada 2023

Postmortem Imaging with Reusable 3D Printed Ex Vivo Brain Enclosures/Cutting Guide for MRI Registration with Gross Anatomy Photographs at 7T [abstract]
Jacob Berardinelli, Julia Kofler, **Jinghang Li**, Owen Flaugh, Nadim Farhat, Tales Santini, Andrea Sajewski, Noah Schweitzer, Joseph Mettenburg, Milos Ikonomovic, Howard J. Aizenstein, and Tamer S. Ibrahim
ISMRM, Toronto, Canada 2023

An Open 60-channel Tx/ 32-channel Rx RF Coil System for Routine Use at 7T [abstract]
Andrea Sajewski, Tales Santini, Anthony DeFranco, Boris Keil, Hecheng Jin, Jacob Berardinelli, **Jinghang Li**, Cong Chu, Tiago Martins, and Tamer Ibrahim
ISMRM, Toronto, Canada 2023 **(Oral Presentation, Magna Cum Laude Merit Award)**

Hippocampal Subfields Volume in Middle Age Healthy Adults [abstract]
Salem Alkhateeb, Tales Santini, **Jinghang Li**, Robin Chu, Daniel Ibrahim, Anna Marsland, Stephen Manuck, Pete Gianaros, and Tamer Ibrahim.
ISMRM, London, United Kingdom 2022

MENTORSHIP

Principal research mentor for the following undergraduate students:

2021-2023 Yuanzhe Huang (Computer Science, University of Pittsburgh)
2022-2023 Tyler Hustko (Bioengineering, University of Pittsburgh)
2022-2022 Taylor Forry (Neuroscience, Temple University)

EMPLOYMENT EXPERIENCE

Undergraduate Research Internship — Summer 2020 – May 2021
Geriatric Psychiatry Neuroimaging Laboratory – University of Pittsburgh, Pittsburgh, PA

Undergraduate Research Internship — Summer 2019
Soft Tissue Biomechanics Laboratory – University of Pittsburgh, Pittsburgh, PA

Manufacturing Co-op — May 2018 – December 2019
Zimmer Biomet, Warsaw, IN

RESEARCH AWARD

Swanson School of Engineering Summer Undergraduate Research Internship ($4000) — Summer 2020
Swanson School of Engineering Summer Undergraduate Research Internship ($4000) — Summer 2019

SKILLS

- Programming languages: MATLAB, Python, C, R, Git, LaTeX
- Platform & Tools: PyTorch, TensorFlow, SolidWorks

CERTIFICATES

- Machine Learning — May 2020

– An online non-credit course authorized by Stanford University and offered through Coursera

- Neural Networks and Deep Learning — May 2020

– An online non-credit course authorized by Stanford University and offered through Coursera

- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization — May 2020

– An online non-credit course authorized by Stanford University and offered through Coursera