



## Tianhe (Rory) Wu

B.A. in Mathematics | B.S. in Biology

GPA: 3.99/4.00

Emory University

Atlanta, GA

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🌐 LinkedIn Profile

🌐 Personal Website

## EDUCATION

### •Emory University

*B.A. in Mathematics | B.S. in Biology*

*Expected: May 2025*

Dean's List, GPA: 4.0/4.0

- **Relevant Courses:** Mathematical Stats, Linear Algebra, Multi-variable Calculus, Advance in Computer Science, Cancer Biology, Genetic, Organic Chemistry

## RELEVANT EXPERIENCE

### •Winship Cancer Institute, Emory University

*Research Assistant; Supervised by Dr.Mao*

*Jun 2022 – Present*

Atlanta, GA

- Analyzed Hemodynamic Heterogeneity of Gliomas based on non-invasive MRI
- Synthesized and Coated Magnetic Iron Oxide Nanoparticles for MRI Contrast Enhancement
- Independently developed proprietary Confocal Signal Identification software, Python-based
- Applied various deep learning and machine learning models to clinical studies, ensuring accurate and efficient data analysis

### •Biology Department of Oxford College, Emory University

*Student Researcher; Supervised by Dr.Taliaferro-Smith*

*Aug 2022 - May 2023*

Oxford, GA

- Investigated the effect of Tap63a upregulation through c-Jun in Triple Negative Breast Cancer

### •Tsinghua University & Bluepha

*Captain of IGEM Team BESA-China*

*Nov 2018 – Dec 2019*

Beijing, China

- Co-led a team of fifteen to design NEZHA, a noncanonical amino acid controlled, extraordinarily sensitive, modularized, heavy metal sensor, and absorber 🔗

## PUBLICATION & CONFERENCE

- **Under Review at Quantitative Imaging in Medicine and Surgery:** Tang, L., **Wu, T.**, etc, Hemodynamic Property Incorporated Brain Tumor Segmentation by Deep Learning and Density-Based Analysis of Dynamic Susceptibility Contrast-Enhanced MRI.
- Tang, L., **Wu, T.**, Hemodynamic Property Incorporated Brain Tumor Segmentation by Deep Learning and Density-Based Analysis of Dynamic Susceptibility Contrast-Enhanced MRI; Poster presented at *World Molecular Imaging Congress 2023*; 2023 Sep 6; Prague, Czech Republic.
- **Wu, T.**, Liu, C., Thamizhchelvan, A. M., Fleischer, C., Peng, X., Liu, G., Mao, H. (2023). Label-free chemically and molecularly selective magnetic resonance imaging. *Chemical Biomedical Imaging*. 🔗
- Martin E, Valavala N, **Wu T(Rory)**, Asante R, Taliaferro-Smith L. (All authors contributed equally) The Impact of c-Jun Initiated Tap63 Upregulation on TNBC Metastasis; Poster presented at *2023 Oxford College Research Scholar Symposium*; 2023 Apr 14; Oxford, GA.

## LEADERSHIP EXPERIENCE

### •International Student Advocacy Board

*Representative*

*August 2021 – Sep 2022*

- Gathered opinions from the international student body and provided feedback to the International Students' Office
- Coordinated summer housing availability for incoming international students
- Coordinated faculty-student panel

### •Emory International Pre-health Club

*Chair of Academic Development*

*May 2023 - Present*

- Responsible for editing more than 20 weekly newsletters with 287 email subscribers
- Organized 3 career panels with 11 different guest speakers

## ACHIEVEMENT

**College:** Dean's List, Phi Eta Sigma

**High School:** Principle's Award, Valedictorian, IGEM Gold Medal, USABO Silver Medal, Drama Club

## TECHNICAL SKILLS

**Languages:** Native in Mandarin, Proficient in English, Beginner in Latin

**Developer Tools:** Python, PyTorch, R, Linux, Java, FSL, MATLAB, and Microsoft Suite