

CLIFF LUN

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Professional Experience

Icahn School of Medicine at Mount Sinai, New York City, NY September 2018 – Present

Associate Researcher II, BioMedical Engineering and Imaging Institute

- Lead analytics and data visualization for 15 NIH-sponsored neuroimaging projects spanning PTSD, anesthesia, environmental exposure, and trauma-driven vascular inflammation
- Implement and improve image processing pipelines for the analysis, visualization, and archival of high-dimensional MRI data using CLI
- Drive efficiencies in analytics and reporting infrastructure through automation; write custom scripts in Python and Bash to accelerate data transformation
- Collected MR imaging and micro-CT imaging data across humans and rodents
- Select findings:
 - Identified that general anesthesia induces transient microstructural changes in the white matter of the brain
 - Determined that World Trade Centre responders correlated to reduced cortical thickness in the entorhinal and temporal cortices

Christopher Unger, M.D. Physician's Office, McLean, VA April 2018 – June 2018
Shadow

- Assisted with phlebotomy, 12-lead EKGs, recording vital signs, physical examinations

Research Experience

Cancer Biotherapy Institute of Jiangsu, Xuzhou Medical University, Xuzhou, China July 2016 – August 2016

Research Assistant, Supervisor: Prof Yao Hong

- Determined the gene expression level of CCDC30 gene in cisplatin-induced HepG2 cell by qPCR and Western Blots assays
- Verified the interaction between HGFK1 and Met receptor in HepG2 cells by Co-immunoprecipitation assay
- Aggregated research data to generate insights about circle RNA as a driver of cancer development

Publications

Jian Zhang, Huizhong Li, Dazhi Gao, Baofu Zhang, Maojin Zheng, Mingyin Lun, Mengxue Wei, Rui Duan, Maomao Guo, Jiajun Hua, Qian Liu, Jin Bai, Hui Liu, Junnian Zheng & Hong Yao (2018) **A prognosis and impact factor analysis of DC-CIK cell therapy for patients with hepatocellular carcinoma undergoing postoperative TACE**, Cancer Biology & Therapy, DOI: 10.1080/15384047.2018.1433501

Tang CY, Wang VX, Lun MY, Mincer JS, Ng JC, Brallier JW, et al. (2021) **Transient changes in white matter microstructure during general anesthesia**. PLoS ONE 16(3): e0247678.

<https://doi.org/10.1371/journal.pone.0247678>

Education

Johns Hopkins University, Baltimore, Maryland August 2023

Prospective **Master of Science**; Major in Bioinformatics

- GPA: 4.00 / 4.00

Georgetown University, Washington, D.C. July 2018

Master of Science; Majors in Physiology and Biophysics

- GPA: 3.91 / 4.00

The University of Hong Kong, Hong Kong June 2017

Bachelor of Science; Majors in Biochemistry and Molecular Biology & Biotechnology

Additional Information

Language Skills: English, Cantonese, Mandarin, Spanish

Technical Skills: Python, R, Bash, Matlab, Perl, SQL, noSQL, git

Neuroimaging Tools / Software: FSL, FreeSurfer, CONN, BrainVoyager, TrackVis, Mango, FreeView, DSI studio