

JAMES YU

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EDUCATION

Case Western Reserve University School of Medicine

Doctor of Medicine – expected

Cleveland, OH

July 2017 – May 2022

John Hopkins University Whiting School of Engineering

Masters of Science in Computer Science – expected

Baltimore, MD

Aug. 2020 – May 2022

- Relevant coursework: Applied Machine Learning, Neural Networks

University of California, Riverside

Bachelor of Science in Biochemistry

Riverside, CA

Aug. 2012 – May 2015

- Medical Sciences Emphasis
- graduated *magna cum laude*

HONORS AND AWARDS

Certificate of Completion

May 2020

- Health Systems Science: Application to Patient Care Quality Improvement Charter and Reflective Blogs
- Top 10% of reflective Blogs

Dr. Thomas Halsey Chancellor's Scholarship/ Chancellor's Scholarship

2012-2015

Chancellor's Honor List

2012-2013, 2014-2015

WORK EXPERIENCE

Emergency Medical Technician

Ambulance Services

Gardena, CA

Feb. 2016 – May 2016

- Gave and received patient care reports, documented patient encounters, and provided care to patients in route

RESEARCH EXPERIENCE

UH Cleveland Medical Center, Division of Pediatric Orthopaedic Surgery

Cleveland, OH

PI: Dr. R. Justin Mistovich

Project: Conservative treatment outcomes for post-operative seromas in pediatric scoliosis patients

2018 – 2019

- Collected descriptive statistics on case series of post-operative seromas following posterior spinal fusion surgeries
- Conducted literature search on post-operative seromas after spinal surgery.
- Primary authorship of peer-reviewed publication and poster at national conference.

Project: Long-term outcomes of growth-friendly implants in EOS patients following deep SSIs

2018 – present

- Use of R and Excel for data analysis, tables and figures.
- Literature review, authorship and editing of manuscript.
- Culminated in podium presentation and manuscript submission

Louis Stokes Cleveland VA Medical Center, Advanced Platform Technology

Cleveland, OH

PI: Dr. Triolo Ph.D.

Project: Use of electrical stimulation to restore sensation in lower limb amputees

2018 – 2019

- Advised in experimentation to study the relationship between electrical-stimulation-induced-sensations and EMG activity in lower limb muscles.
- Conducted literature search for study design.
- Authorship and editing of peer-reviewed publication and poster at a national conference.

Medical College of Wisconsin, Department of Medicine

Milwaukee, WI

PI: Jyoti Sengupta Ph.D. and Banani Banerjee Ph.D.

Project: Neuromolecular Mechanisms of Chronic Pelvic Pain in Neonatally-induced Cystitis

2016 – 2017

- Survival surgeries: intrathecal catheterization and EMG electrodes implantation in SD rats
- Behavior studies: visceromotor response to colorectal distension and von Frey filament test in neonatally-induced cystitis models.
- Molecular experiments: analysis of microRNA and protein (mir92b, KCC2, VGAT) expression through RT-PCR and Western Blot respectively
- Use of Excel, CorelDraw, SigmaPlot, EndNote for figures, graphs, statistics and references.
- Contributed in authorship and editing of peer-reviewed publication.

PEER-REVIEWED PUBLICATIONS

1. Dumaine AM, **Yu J**, Poe-Kochert C, Thompson GH, Mistovich RJ. "Surgical Site Infections in Early Onset Scoliosis What Are Long-term Outcomes and Predictors of Success?" Spinal Deformity — *under Revision; April 2021*
2. **Yu J**, Dumaine AM, Poe-Kochert C, Thompson GH, Mistovich RJ. "Seromas Following Pediatric Spinal Deformity Surgery: Is Operative Management Necessary?" J Pediatr Orthop. 2019 Dec 23. doi: 10.1097/BPO.0000000000001496. PubMed PMID: 31876697.
3. Cheng K, Charkhkar H, **Yu J**, Makowski N, Triolo R. "Probing peripheral neural pathways in electrically stimulation induced sensation," 2019 9th International IEEE/EMBS Conference on Neural Engineering (NER), San Francisco, CA, USA, 2019, pp. 453-456. Published on IEEE Xplore
4. Zhang J, **Yu J**, Kannampalli P, Nie L, Meng H, Medda B, Shaker R, Sengupta JN, Banerjee B. "miRNA-mediated downregulation of KCC2 and VGAT expression in spinal cord contributes to neonatal cystitis-induced visceral pain in rats." Pain. 2017 Sep 1. doi: 10.1097/j.pain.0000000000001057. PMID: 28885452.

POSTER & PODIUM PRESENTATIONS

1. Dumaine AM, **Yu J**, Poe-Kochert C, Thompson GH, Mistovich RJ. "Long Term Outcomes Following Surgical Site Infections in Early Onset Scoliosis Patients: A 15-year Retrospective Review." American Academy of Pediatrics Virtual National Conference & Exhibition. October 2020.
2. **Yu J**, Dumaine AM, Poe-Kochert C, Thompson GH, Mistovich RJ. "Seromas following Pediatric Spinal Deformity Surgery: Is Operative Management Necessary?" Mid-America Orthopaedic Association 38th Annual Meeting. April 2020.
3. Zhang J, **Yu J**, Meng H, Kannampalli P, Medda B, Shaker R, Sengupta JN, Banerjee B. "MicroRNA-mediated downregulation of GABA-associated co-transporter and transporter in rats spinal dorsal horns with zymosan-induced cystitis" MCW Department of Medicine Retreat; Milwaukee, WI (2017).

COMMUNITY SERVICE

Riverside Community Hospital

Riverside, CA

Volunteer

2014 – 2015

- Escorted patients and visitors throughout hospital; delivered mail, gifts, and flowers; and helped to discharge patients.

Medical Students Cultural Exchange

New Taipei, Taiwan

Teaching Assistant and Facilitator

Summer 2015

- Facilitated group discussions and helped coordinated summer camp activities with Taiwanese medical students.
- Gave presentation on Patient Protection and Affordable Care Act.

LANGUAGES

English: Fluent

Mandarin: Proficient

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C++, HTML/CSS, R

Developer Tools: Git, Docker, TravisCI, VS Code

Libraries: pandas, NumPy, Matplotlib, seaborn, sklearn, pytest-cov, pybind11, Sphinx