PROFILE

Combined MD/PhD student studying infectious disease and microbiology with diverse research skills in data science, wet-lab techniques, and animal handling. Former professional artist who simultaneously performed at an international level of ballet, pursued diverse interests, and maintained a high-level of academic achievement. Interested in emerging infectious diseases, data science, and equity in the arts.

EDUCATION

University of Texas Medical Branch School of Medicine   May 2028
MD/PhD in Biochemistry, Cellular and Molecular Biology, MS2

University of Pittsburgh, Graduate School of Public Health   May 2020
MS in Infectious Disease and Microbiology

Texas A&M University, College of Veterinary Medicine and Biomedical Science   May 2018
BS in Biomedical Studies

RELEVANT EXPERIENCE

Peiyong Shi Lab | University of Texas Medical Branch   2021 - 2022
Graduate Member (Thesis Lab)
- Applied molecular cloning and virologic techniques at Biosafety Level 3 to characterize resistance mutants to an aerosolized SARS-CoV-2 antibody therapy currently in Phase I clinical trials.

Andrew Routh Lab | University of Texas Medical Branch   2021 - 2022
Collaborator
- Developed web application, NoSQL database, and documentation for ViReMa, a viral recombination mapper software supporting SARS-CoV-2 clinical isolate surveillance within the UTMB hospital system.

Nikos Vasilakis Lab | University of Texas Medical Branch   2021
Collaborator
- Identified gene expression changes in a human skin model bitten by Dengue virus infected mosquitoes.

St. Vincent's Student Clinic | University of Texas Medical Branch   2020 - 2021
Steering Committee Member (Logistics and Smoking Cessation Programming)
- Assisted in development of a student-run comprehensive care clinic for congestive heart failure patients and performed motivational interviewing for tobacco use.

Ernesto Marques, Jr. Lab | University of Pittsburgh Graduate School of Public Health   2018 - 2020
Graduate Member (MS Thesis Work)
- Worked on projects related to pathogenesis and host response of Dengue and Zika viral infection, developed and optimized immunoassays, and analyzed large datasets of immune-related patient features.

Vishwajit Nimgaonkar Lab | University of Pittsburgh Medical Center Western Psychiatric Hospital   2019 - 2020
Graduate Member
- Applied virologic techniques and cultured brain organoids for modeling of herpes simplex infections.

Koichi Kobayashi Lab | Texas A&M College of Medicine   2016 - 2018
Undergraduate Member
- Contributed to several projects related to the role of the gene NLRC5 in various cancers, worked with transgenic mice models, analyzed large public datasets (TCGA), and mentored students.

MD Anderson Cancer Center | T. Boone Pickens Academic Tower   2016 - 2017
Integrative Medicine Trainee and Internal Medicine Observer
- Used R to prepare large clinical datasets for multivariate survival analysis, collected clinical data from EPIC software, presented at weekly meetings, attended lectures, and shadowed physicians.

Aggie Research Scholar | Texas A&M Vet-Med GI Lab   2016 - 2017
Team Member
- Contributed to research projects utilizing cytokine levels to diagnose canine chronic enteropathies.

RESEARCH PUBLICATIONS

1. Modeling infections in the human brain: a neural cell model of the complement system derived from induced pluripotent stem cells. (In Preparation)

2. **Yeung J**, Routh AL. ViReMaShiny: An Interactive Application for Analysis of Viral Recombination Data. bioRxiv. 2022:2022.04.06.487215. doi:10.1101/2022.04.06.487215

3. Yoshihama S, Cho S, **Yeung J**, Pan X, Lizee G, et al. 2021. NLRC5/CITA expression correlates with efficient response to anti-CTLA-4 checkpoint blockade. *Scientific Reports.*

4. Zheng W, Klammer AM, Naciri JN, **Yeung J**, Demers M, et al. 2020. Patterns of HSV-1 infection in neural progenitor cells. *Journal of Virology*. doi:10.1128/JVI.00994-20:JVI.00994-20

5. Liu W, Qdaisat A, **Yeung J**, Lopez G, Weinberg JS, Cohen L, et al. 2018. The association between common clinical characteristics and postoperative morbidity and overall survival in patients with glioblastoma. *The Oncologist*. theoncologist.2018-0056. 10.1634/theoncologist.2018-0056.

6. Liu W, Qdaisat A, Lee E, **Yeung J**, Vu K, Lin J, et al. 2019. The association between weight stability and parenteral nutrition characteristics and survival in patients with colorectal cancer. *Gastroenterology Report*.

SKILLS AND ACTIVITIES

Proficient in R / Shiny, D3.js

Experience in Python, Java, Linux / UNIX Command line, MongoDB

ARTISTIC EXPERIENCE

Final Bow for Yellowface | Houston, TX   2021 - 2022
Research Advisor
- Advise and conduct research for Final Bow for Yellowface, a non-profit organization dedicated to modernizing onstage depictions and promoting visibility of Asian Americans and Pacific Islanders in dance.

Dance Data Project ® | Houston, TX   2020 - 2022
Research Advisory Board Member
- Advise and manage projects for Dance Data Project, a non-profit organization featured in *The New York Times* which "promotes equity in all aspects of classical ballet by providing metrics-based analysis".

Data Pointes | Pittsburgh, PA   2019 - 2022
Founder / Writer
- Created a data-driven ballet organization analyzing patterns in diversity and hiring; launched app helping dancers make career decisions.

Colombian Folkloric Ballet | Houston, TX   2016
Soloist Performer
- Performed in *Mi Colombia*, a project funded in part by a grant from the City of Houston through the Houston Arts Alliance and dedicated to the promotion of Colombian culture in the United States.

Houston Ballet | Houston, TX   2016
Audiovisual Intern
- Coordinated with other production team members to fulfill video production-related requests, created checkout system for the video archive in Visual Basic, catalogued, and edited promotional footage.

City Ballet of Houston | Houston, TX   2014 - 2017
Artist in Residence
- Performed as the lead artist in outreach shows at Jones Hall (Greater Houston Youth Nutcracker) for Houston public school systems; outreach shows integrate inner city youths into the performance and award dance scholarships to promising children.

Tulsa Ballet | Tulsa, OK   2012 - 2014
Full-Time Second Company Performer

- Performed in shows with the critically acclaimed company including outreach shows and teaching events for children from the Tulsa public school system.

Awards

Carl J. Herzog Endowment for the MD/PhD Program Awardee – 2022
Delta Omega Honorary Society in Public Health – based on "outstanding scholarship in students" – 2020
Dean's list – 2016, 2017
Valentina Kozlova International Ballet Competition Semi-Final New Orleans – Bronze medal – 2015
Valentina Kozlova International Ballet Competition Finals New York – Awarded New Jersey Ballet Contract (one of four recipients of a corps company job contract) – 2015
World Ballet Competition – an international competition with competitors from 32 countries – 3rd Place Pas De Deux Division – 2015