	Michelle H. Nguyen
	Johns Hopkins University School of Medicine
	Department of Biomedical Engineering
	3101 Wyman Park Dr
	Hackerman Hall 318
	Baltimore, MD 21218
	(703) 577-1600
	Email: mnguye79@jhmi.edu
	<u>mh-n.github.io</u>
EDUCATION	
2020-Present	Ph.D. (candidate), Department of Biomedical Engineering
	Johns Hopkins University School of Medicine
	Area of Concentration: Biomedical Data Science
	Expected graduation: August 2025
2016-2020	B.S. Department of Biomedical Engineering, Honors College
	Magna cum laude
	Virginia Commonwealth University
	Area of Concentration: Biomaterials and Biomechanics, Minor:
	Mathematics
RESEARCH EXPE	RIENCE
2020- Present	Research Assistant, Department of Biomedical Engineering, Johns
	Hopkins School of Medicine, Baltimore, MD, PI: Dr. Casey Overby
	Taylor
2018-2020	Undergraduate Research Assistant, Department of Biomedical
	Engineering, Virginia Commonwealth University School of
	Engineering, Richmond, VA, PI: Dr. Seth Weinberg
2017-2018	Undergraduate Research Assistant, Department of Biomedical

Undergraduate Research Assistant, Department of Biomedical Engineering, Virginia Commonwealth University School of Engineering, Richmond, VA, PI: Dr. Raiyan Zaman

PAPERS

- Nguyen M.H., Applegate C., Murray B., Zirikly A., Tichnell C., Pendleton C., Gordon C., Yanek L.R., James C.A. Taylor C.O. Generating Real-World Evidence of Genetic Counseling Efficiency with Natural Language Processing. [Manuscript submitted to JAMA]
- Wang N., Lu Y.L., Treewaree S., Zirikly A., Nguyen M.H., Agarwal B., Shah J., Stevenson J.M., Taylor C.O. (2024). Prompt Engineering to Generate Synthetic Patient Portal Drug-Related Communications. *Journal of Biomedical Informatics*. DOI: 10.1016/j.jbi.2024.104752
- Nguyen M.H., Sedoc, J., & Taylor C. O. (2024). Usability, engagement, and report usefulness of chatbot-based family health history data collection: Mixed-methods analysis. *Journal of Medical Internet Research*. doi:10.2196/55164. <u>http://dx.doi.org/10.2196/55164</u>
- Soley N., Klein A., Taylor C.O., Nguyen M., Ewachiw G., Shah H., Bodurtha J. Feasibility of the Genetic Information Assistant Chatbot to Provide Genetic Education and Study Genetic Test Adoption Among Pancreatic Cancer Patients at Johns Hopkins Hospital. AMIA Jt Summits Transl Sci Proc. 2023 Jun 16;2023:497-504. PMID: 37350913; PMCID: PMC10283105.

PRESENTATIONS

Oral presentations:

November 2024	"Strolr: An LLM-enabled Chatbot to Support Pregnant Women's Quick and Easy Information Seeking from Trustworthy Sources." AMIA National Symposium 2024, San Francisco, CA.
November 2024	"Automated Genetic Counseling Efficiency Measure Extraction with Rules-based Natural Language Processing Methods." AMIA National Symposium 2024, San Francisco, CA.
July 2024	"Enhancing FHx collection and documentation with a chatbot and NLP pipeline." Doctoral Consortium. International Conference on Artificial Intelligence in Medicine. Salt Lake City, UT.
November 2021	"mAMIA: mHealth dashboard to support pregnant women's health information seeking and emotional and social wellbeing." AMIA National Symposium 2021, San Diego, CA
Invited talks:	
April 2025	Rule-based Natural Language Processing Methods to Extract Genetic Counseling Efficiency Measures. Johns Hopkins Cardiogenetics Case Conference. April 9, 2025.
Poster presentations:	
November 2024	"Comparing telehealth and in-person genetic counseling visit times across specialties"
March 2023	"Randomized Intervention Study of Form-based and Chatbot-based Methods for Family History Data Collection"
March 2023	"Detecting Phenotypes Among Patients Suspected of Rare Mendelian Disorders" AMIA Informatics Summit 2023, Seattle, WA
November 2022	"Piloting Family Health History Chatbot with Crowd-Sourced Data Collection"
April 2022	"Design and Implementation of Web-based Methods for Family Health History Collection" ACTS Translational Science 2022, Chicago, II
May 2018	"Modeling Heart Rate Variability with ECG-based Patient Data" Honors Summer Undergraduate Research Program, Richmond, VA
April 2017	"Piano Practice as Pediatric Multiple Sclerosis Therapy" 9 th VCU Poster Symposium for Undergraduate Research and Creativity, Richmond VA
HONORS & AWARDS	
2021-2022	NIH/NCATS ICTR Pre-doctoral Clinical Research Training Grant, TL1 TR003100
2021 2020-2021	AMIA Student Design Challenge Finalist NIH/NIGMS Pre-Doctoral Training Program in Computational Medicine, T32

2019-2020	Tau Beta Pi Scholarship
2017-2019	Western Union Global Foundation Scholarship
2017	VCU Launch Award
2016-2020	VCU Provost Scholar

TEACHING EXPERIENCE

Teaching Assistant	Biomedical Data Design (Fall 2022-Spring 2023)
Teaching Assistant	Honors Rhetoric (Fall 2017-Spring 2020)

RESEARCH SUPPORT

Completed	
2021-2022	Pre-doctoral fellowship - TL1 TR003100. NIH/NCATS
2020-2021	Pre-doctoral fellowship - CMT32. NIH/NIGMS

OTHER EXPERIENCE

2024-Present	Letters to a Pre-Scientist STEM Professional Outreach Pen Pal
2024-Present	Johns Hopkins Medicine Basic Sciences Institute – Summer
	Internship Program Triage Reviewer
2023-Present	JHU Student Services Excellence Initiative Student Advisory
	Committee Member
2018-2020	VCU Engineering Student Council Executive Board Member
2018-2020	Tau Beta Pi Epsilon Chapter Vice President
2017-2020	Co-Editor-in-Chief and Webmaster of Auctus: The Journal of
	Undergraduate Research and Creativity at VCU
2019	FIRST Chesapeake NextUP RVA Robotics Instructor, Richmond,
	VA