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EDUCATION

2020-Present	**Ph.D**. (candidate), Department of Biomedical Engineering **Johns Hopkins School of Medicine** Area of Concentration: Biomedical Data Science
2016-2020	**B.S.** Department of Biomedical Engineering, Honors College *Magna cum laude* **Virginia Commonwealth University** Area of Concentration: Biomaterials and Biomechanics, Minor: Mathematics

HONORS & AWARDS

2021-2022	NIH/NCATS ICTR Pre-doctoral Clinical Research Training Grant, TL1 TR003100
2021	AMIA Student Design Challenge Finalist
2020-2021	NIH/NIGMS Pre-Doctoral Training Program in Computational Medicine, CMT32
2019-2020	Tau Beta Pi Scholarship
2017-2019	Western Union Global Foundation Scholarship
2017	VCU Launch Award
2016-2020	VCU Provost Scholar

RESEARCH EXPERIENCE

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 Engineering, Virginia Commonwealth University School of Engineering, Richmond, VA, PI: Dr. Raiyan Zaman

TEACHING EXPERIENCE

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

PAPERS

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 American Medical Informatics Association (*Submitted).*

Nguyen, M.H., Sedoc, J., & Taylor, C. O. (2023). Usability, engagement, and report usefulness of chatbot-based family health history data collection: Mixed-methods analysis. *Journal of Medical Internet Research (*In Review).* https://doi.org/doi:10.2196/55164

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 (*Submitted)
November 2024*	"Automated Genetic Counseling Efficiency Measure Extraction with Rules-based Natural Language Processing Methods." AMIA National Symposium 2024, San Francisco, CA (*Submitted)
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

Poster presentations:

March 2023	"Randomized Intervention Study of Form-based and Chatbot-based Methods for Family History Data Collection" AMIA Informatics Summit 2023, Seattle, WA.
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" AMIA National Symposium 2022, Washington, D.C.
April 2022	"Design and Implementation of Web-based Methods for Family Health History Collection" ACTS Translational Science 2022, Chicago, IL
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" 9th VCU Poster Symposium for Undergraduate Research and Creativity, Richmond VA

RESEARCH SUPPORT

Completed

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

OTHER EXPERIENCE

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