## Nyssa N. Tucker nyssa.tucker@gmail.com

nyssa.tucker@gmail.com  EDUCATION	
	Il., 2021
University of North Carolina, Chapel Hill, NC Ph.D. Curriculum of Toxicology and Environmental Medicine	July 2021 - present Advisor: Dr. Alex Tropsho
Certificate Seeking – Bioinformatics & Computational Biology	Marison. Dr. Mich Tropsia
Laboratory for Molecular Modeling – https://molecularmodelinglab.github.io/members/nyssa_tuc	ker.html
Meredith College, Raleigh, NC	May 201
Major: B.S. Biology, B.A. Chemistry	cum laude (3.57/4 GPA
Minor: Ethics; partial coursework at DIS, Copenhagen, Denmark Jan-May 2014	Honors Scholar
WORK EXPERIENCE	
Graduate Research Assistant. University of North Carolina, Molecular Modeling Lab, Chapel Hill, NC.  Establish framework identifying key factors of toxicity culminating in hepatic steatosis, and  Accumulate in-silico evidence for the prediction of hepatic steatosis using <b>R, python, and KNIME</b> Verify in-vitro predicted causative compounds assessed using measures of hepatotoxicity and lipid	
ORISE Research Participant. United States Environmental Protection Agency, B. Chorley Lab, Durham, No Establish high-content fluorescent profiles for toxicity responses due to shifted baseline metabolic Characterize phenotype outcomes in response to known key molecular events with high-throughpy Analyze high-content output by incorporating both existing packages and novel R programming.	C. 2018 - 2021 c state,
Toxicology Lab Technician. S & G Labs, S.B. Kosem Lab, Kailua-Kona, HI.	2017
Maintain a complex reagent inventory and sample library, and process patient sample toxicological Undergraduate Researcher. Meredith College, A. Ormond Lab, Chemistry Physics & Geoscience Departme Define, design, and complete synthetic course with multi-step product-validations towards novel fl	ent. 2016
PUBLICATIONS	
N. Tucker, G. Nelson, J. Harrill, B. Chorley. (in prep) Establishing A Hepatic Culture Model To Assess Alto Susceptibility. Target Journal: Toxicological Sciences.  N. Tucker. (2016) Finding the Feminine in Watchmen. Honors Senior Thesis published by Meredith College.	
PRESENTATIONS	
High Content Imaging Assessment of Chemical Hepatotoxicity and Differential Impact of Pre-Existing Hepatotoxicity of Toxicology (SOT), Nashville TN.	
Development of a Curated Hepatic Steatosis Database & QSAR of HS Data – Poster presentation.  Society of Toxicology (SOT), San Diego CA.	March 2022
High Throughput Assessment of Increased Chemical Toxicity due to Hepatic Steatosis – Poster presentation  Environmental Mutagenesis and Genomics Society.	
Establishing A Hepatic Culture Model To Assess Altered Chemical Susceptibility [Liver Steatosis] – Poster Environmental Mutagenesis and Genomics Society.	r presentation. Sept 2020
Hepatic Steatosis Shifts Phase I Metabolism and Alters Susceptibility to Toxicants In Vitro – Oral presentat Genetics, Environment, and Mutagenesis Society (GEMS), Durham NC.	ion. Oct 201
A Human Hepatocellular Steatosis Model for In Vitro Toxicity Assessment – Poster Presentation.  International Union of Toxicology, Honolulu, HI.	Jul 2019
Fatty Liver and <sup>1</sup> / <sub>3</sub> rd of You! – Oral presentation. <i>GEMS</i> , Durham NC.	Apr 2019
SERVICE, OUTREACH, & VOLUNTEER EXPERIENCE	11p1 = 012
	2022
Social Co-Chair. Curriculum in Toxicology and Environmental Medicine, UNC CH	2023 - present
Aquire funding for and organize social events towards networking and community building in CiTa Senator. CiTEM Graduate and Professional Student Government UNC CH.	2022 - present
Sponsor legislation to address constituent concerns and needs via senate meetings and SoGAPS at <b>President</b> . Graduate Women in Science, Raleigh Triangle Chapter	uxiliary committee. 2020 - present
Coordinate fundraising, opportunities, and events to connect, promote, and inspire women in scien	nce to unite in friendship.
Early Career Research Seminar Coordinator. Graduate Women in Science, National.	2020 - 2022
Initiate, coordinate, maintain national monthly seminars spotlighting early career research present Vice President. Networking Leadership Trainee Organization, U.S. E.P.A. Durham, NC.	2019 - 2021
Recruit peers to share research, plan events, and support each other as scientists and professional.	
Student Mentor. Community Engagement & STEM Education Program, U.S. E.P.A. Durham, NC.	2019 - 2021
Membership Secretary. Graduate Women in Science, Raleigh Triangle Chapter	2018 - 2020
Data Curator. Planned Parenthood, Raleigh, NC.	2014 - 2015