

# Sophia von Hippel

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CONTACT INFORMATION	Email: vonhippel@hey.com Cell: (907) 230-1236 Website: MAX MAKE ME ONE	Tucson, AZ
RESEARCH INTERESTS	The impacts of chemical pollutants on neural function. Mechanistic characterization of altered nociception and migraine by endocrine-disrupting chemicals. The role of endocrine disrupting chemicals in neurodegenerative diseases.	
EDUCATION	<b>University of Arizona</b> , Tucson, AZ (GPA 3.9) <i>PhD in Medical Pharmacology</i> • Expected Graduation: May 2028 • Advisor: Prof. Tally Largent-Milnes	<b>August 2023 – present</b>
	<b>University of Arizona</b> , Tucson, AZ (GPA 3.8) <i>BS in Chemistry, Honors College</i> • Attended on a full tuition merit-based scholarship • 515 on MCAT, 90th percentile score • Preceptor for BIO 181 Lab, Spring 2019	<b>August 2018 – December 2022</b>
	<b>Woodstock School</b> , India (GPA 3.9) <i>High School Diploma</i> • Karen Krenz Cup award for outdoor leadership and hiking • Half tuition scholarship for merit and diversity	<b>2018</b>
PROFESSIONAL EXPERIENCE	<b>University of Arizona</b> , Tucson, AZ <b>Research Assistant, Largent-Milnes Lab</b> • <i>Currently Developing Skills:</i> rat pap smears, rat socialization, SAC via guillotine, and western blots.	<b>April 2024 – Present</b>
	<b>University of Arizona</b> , Tucson, AZ <b>Research Assistant, Brinton Lab, Center For Innovation In Brain Sciences</b> • <i>Lab responsibilities:</i> daily animal care, mouse echoMRIs, mouse sleep recordings, necropsies & tissue harvest, poster preparation, data analysis & entry into prism, report writing, and literature searches.	<b>December 2022 – April 2024</b>
	<b>National Aeronautics and Space Administration, Goddard Space Flight Center (GSFC)</b> <b>Aug 2020 – Dec 2020</b> <b>Intern applying deep learning techniques to climate data</b> • Included Python and Bash programming. Prepared a training data set and modified a neural network model using PyTorch.	
	<b>Alaska Telepsychology</b> , Anchorage, AK <b>JOB TITLE</b> • Bookkeeping, data entry, and writing	<b>WHEN? – Present</b>
	<b>Sonoran Brazilian Jiu Jitsu</b> , Tucson, AZ <b>Assistant Coach</b>	<b>Feb 2024– Present</b>
	<b>Federal Emergency Management Agency</b> , Tucson, AZ <b>COVID-19 Vaccinator</b>	<b>Summer 2021</b>
	<b>University of Arizona Emergency Medical Services</b> , Tucson, AZ <b>Emergency Medical Technician, Continuing Quality Improvement Officer</b>	<b>2020 –2022</b>
	<b>Tucson Fire Department</b> , Tucson, AZ	<b>2021</b>

## Volunteer Vaccinator

RESEARCH	<p>Tianle Yuan, Hua Song, Chenxi Wang, Lazaros Oreopoulos, Steven Platnick, <b>Sophia von Hippel</b>, Kerry Meyer, Siobhan Light, Eric Wilcox <i>Global reduction in ship-tracks from sulfur regulations for shipping fuel</i>. Science Advances.</p> <p>Xenia Trier, Simona Balan, Saskia van Bergen, Ann Blake, Topher Buck, Scott Coffin, Jamie DeWitt, Gretta Goldenman, Frank von Hippel, <b>Sophia von Hippel</b>, Christopher Leonetti, David Rist, Martin Scheringer. <i>Sequoia Statement on Chemicals in a Changing Climate: Climate change mitigation must not exacerbate chemical pollution</i>. Environmental Innovation and Societal Transitions. Under Review.</p> <p>Honors thesis project focused on aryl hydrocarbon receptor activity among metabolites measured at elevated concentrations in firefighter urine samples. Completed Fall 2022.</p>
TALKS	<p><b>Biology Cafe #1: The Illogical Nature of Chemical Nomenclature</b> Boston Computation Club, July 2021</p>
COURSEWORK	<p>Molecular Targets of Pharmacological Agents, Neuropharmacology, Biostatistics, Pharmacology: General Principles, Pharmacology: Chemo, Endo, &amp; ISD, Pharmacology: Cardio, Pulm, GI, &amp; CNS, Organic Structural Analysis Lab, Instrumental Analysis, Chemical Measurement Lab, Plant Biochemistry and Biochemical Engineering</p>
AWARDS	<p>Outstanding Senior Award, Chemistry and Biochemistry, University of Arizona (Fall 2022) Dean's List with Distinction (Fall 2018, Fall 2021) Honorable Mention (Spring 2019, Spring 2020) First Level Honors Awarded( Spring 2020) Academic Year Academic Distinction (Spring 2020) Dean's List (Fall 2019)</p>
LEADERSHIP	<p>Founder and president of the Arizona Aerials Club, 2019 Union of Concerned Scientists, volunteer for legislative meetings (2020 – 2022) Citizen's Climate Lobby, volunteer for legislative meetings (2020 – 2022)</p>
CERTIFICATIONS	<ul style="list-style-type: none"><li>• Emergency Medical Technician (EMT); Certified by the state of Arizona (2020 - 2022)</li><li>• EMT and Wilderness First Responder; Certified by National Outdoor Leadership School (NOLS) Wilderness Medicine Institute (WMI) for the state of California (2019 – 2021)</li><li>• Epinephrine Auto-injector; Certified by NOLS WMI (2019-2021)</li><li>• EMT; Certified by National Registry of Emergency Medical Technicians (2019 – 2022)</li><li>• Basic Life Support; Certified by American Red Cross (2019 – 2022)</li></ul>
PROFESSIONAL MEMBERSHIP	<p>Member, The Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment (ISTAART), Jan 2024-Present</p>