

# David Harris Schaffer, MD

david.schaffer@prismahealth.org

## EDUCATION

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**University of North Carolina at Chapel Hill**, School of Medicine, Chapel Hill, NC  
Doctor of Medicine (MD) | 08/19/2014 – 05/13/2018

**Georgetown University**, College of Arts and Sciences, Washington, D.C.  
Bachelor of Science, Biology of Global Health | 09/2010 – 05/2014  
*Graduated Magna Cum Laude*  
*Recipient of the Georgetown University Biology medal for “the highest degree of industry, perseverance, leadership, maturity, and promise in the field of biology.”*

## EMPLOYMENT AND POST-GRADUATE TRAINING

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**Prisma Health Upstate and University of South Carolina School of Medicine Greenville**, Greenville, SC  
*Director of Medical Toxicology, Department of Emergency Medicine* | 08/05/2024 – Present  
Emergency physician and director of a new medical toxicology inpatient consult service and outpatient clinic at Prisma Health Upstate.

**Palmetto Poison Center**, Columbia, SC  
*Medical Toxicologist* | 09/2024 – Present  
Supervise nurses and pharmacists as a Medical Toxicologist at South Carolina’s only Poison Center.

**UVA Medical Center**, Charlottesville, VA  
*Fellowship in Division of Medical Toxicology* | 07/2022 – 06/2024  
Training in Medical Toxicology at the UVA Division of Medical Toxicology and Blue Ridge Poison Center.

**BWH/MGH Harvard Affiliated Emergency Medicine Residency, Department of Emergency Medicine**, Boston, MA  
*Resident Physician* | 06/2018 – 06/2022  
Residency training at Massachusetts General, Brigham & Women’s, and Boston Children’s Hospitals.

**American College of Medical Toxicology (Non-clinical)**, Phoenix, AZ  
*Medical Toxicology in Industry Fellowship* | 10/2022 - 11/2022  
Organized by Bayer and the American College of Medical Toxicology, completed fellowship program designed to teach the principles of product development from the R&D pipeline, through the regulatory process, to launch and post-market stewardship.

**University Physicians Group, UVA Medical Center**, Charlottesville, VA  
*Clinical Instructor in Emergency Medicine* | 07/26/2022 – 06/30/2024  
Attending Physician at the University of Virginia Medical Center, Department of Emergency Medicine.

**Butterfly Network, Inc. (Non-clinical)**, Burlington, MA  
*Consulting Emergency Physician* | 01/2022 - Present  
Consulting physician in ultrasound technologies.

**One Tent Health (Non-clinical)**, Washington, D.C.  
*Co-Founder & Policy Director* | 01/2016 – Present  
Directing public health strategy and operations of a DC-based non-profit organization committed to addressing the HIV epidemic in underserved areas of the nation’s capital, now with over 4000 volunteers, partnerships with both the DC Department of Health and several nongovernmental organizations, and service expansion to include opioid abuse education, naloxone and PrEP prescription, and COVID-19 testing. Featured in *JAMA*, *The Washingtonian*, *POZ*, *HIVPlus*, *The Washington Blade*, and others. We have presented our work at local and national meetings, including to the Centers for Disease Control (CDC) Division of HIV Prevention.

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## OTHER RESEARCH AFFILIATIONS

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### **StatPearls**, Treasure Island, Florida

*Editor-in-Chief, Toxicology* | 05/2024 – Present

StatPearls is a leading professional healthcare education and technology company. Along with an expansive array of point-of-care and educational activities, more than 8,000 authors and editors have published nearly 10,000 peer-reviewed PubMed-indexed articles on virtually every clinical topic in healthcare.

### **SpaceX (Non-clinical)**, Hawthorne, CA

*Medical Toxicology Collaborator* | 09/2022 – 02/2024

Collaborated with the Space Operations Physician Lead to develop protocols for toxicologic exposures and emergencies in space. Projects have included institution of hypergol fuel exposure protocols, derivation of exposure limits to toxic gases and volatile liquids, and identification of risk mitigation strategies. Research published in *Clinical Toxicology*.

### **University of North Carolina Project China**, Guangzhou, China

*Research Fellow* | 06/2015 – 07/2015

Investigated community engagement-based public health strategies in South China as a Fellow of the Infectious Disease Society of America (IDSA), American Society of Tropical Medicine and Hygiene (ASTMH), and UNC Global Enrichment Fund. Findings published in *BMC Public Health*, 2017: “Innovation contests to promote sexual health in china: a qualitative evaluation.”

### **Georgetown University Department of Biology**, Washington, D.C

*Research Technician* | 05/2014 – 08/2014

Operated under USDA grant to design and program quantitative models of a recent Porcine Epidemic Diarrheal Virus outbreak in the U.S. Work was used for a presentation given by the principal investigator to USDA representatives.

### **State Key Laboratory of Genetic Engineering**, Fudan University, Shanghai, China

*Research Assistant* | 06/2012 – 08/2012

Investigated the efficacy of new molecular models for a Foot-and-Mouth Disease Virus vaccine. Methods focused on in vitro measurement of neutralizing antibodies to synthetic epitopes.

## PUBLICATIONS & LECTURES

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### **Publications and Presentations at National Scientific Meetings**

- Shafer, S; Schaffer, DH; Antonsen, E; Anderson, G. “Medical Toxicology Considerations for Space Exploration.” *Wilderness & Environmental Medicine*. In press.
- Hamilton RJ, Schaffer DH. n-hexane Toxicity. [Updated 2024 Oct 29]. In: *StatPearls* [Internet]. Treasure Island (FL): StatPearls Publishing
- Poole ND, Schaffer DH. Pyrethrin and Pyrethroid Toxicity. [Updated 2024 Aug 11]. In: *StatPearls* [Internet]. Treasure Island (FL): StatPearls Publishing
- Schaffer, DH; Charlton, NP; Loesche, MA; Murray, AC. “Reevaluating Permissible Exposure Limits for Carbon Monoxide in Spaceflight.” *Journal of Medical Toxicology*. 2024; 20:90
- Schaffer, DH; Murray, AC; Farah, R; Holstege, CP. “Analysis of Severe Phenazopyridine Poisonings: Insights From Case Narratives on Clinical Management and Outcomes.” *Journal of Medical Toxicology*. 2024; 20:91
- Holstege, CP; Schaffer, DH; Ross, JA. Chemical, Biological, Radiological, Nuclear, and Explosives – Opioids/Benzodiazepines Poisoning. *Medscape Drugs & Diseases*. Updated Sep 18 2023. Available at: <https://emedicine.medscape.com/article/834190>

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- Schaffer, DH; Charlton, NP. "Dietary Supplements: Regulation and Clinical Issues." *Newsletter of the Blue Ridge Poison Center*. September 2023.
- Cole, RC; Schaffer, DH; Charlton, NP. "Letter to the Editor: Xylazine – Medical and Public Health Imperatives." *New England Journal of Medicine*. Accepted for publication 07/26/2023
- Schaffer, DH; Cole RJ; Medeus, CF; Charlton, NP. Ivermectin neurotoxicity successfully treated with lipid emulsion therapy: a case series. *Clinical Toxicology*. 2023;61 (Supplement 2): 150.
- Neri, BA; Farah, R; Schaffer, DH; Moore, CJ; Papin, JA; Holstege, CP. Liver injury trends due to poisoning as reported in the National Poison Data System (2000 – 2022). *Clinical Toxicology*. 2023;61 (Supplement 2): 38.
- Cole, RJ; Farah, R; Schaffer, DH; Holstege, CP. Top substances reported to US poison centers associated with major outcome or death. *Clinical Toxicology*. 2023;61 (Supplement 2): 37.
- Farah, R; Schaffer, DH; Vithoulkas, J; Holstege, CP. Pediatric opioid exposures in the United States. *Clinical Toxicology*. 2023;61 (Supplement 2): 156.
- *Community-based, Rapid HIV Screening and Pre-exposure Prophylaxis Initiation* – Lecture to the Centers for Disease Control (CDC) Division of HIV Prevention, 02/01/23
- Farah, R; Schaffer, DH; Holstege, BJ; Holstege, CP. Poison Center Utilization by Law Enforcement and Correctional Facilities: Single Center Data 2003-2022. *J. Med. Toxicol.* 2023;19(2).
- Goodrich, WR; Schaffer, DH; Farah, R; Charlton, NP. Single Substance Ingestions of Citalopram Versus Escitalopram to U.S. Poison Centers from 2010 – 2022. *J. Med. Toxicol.* 2023;19(2).
- *Untargeted liquid chromatography-mass spectrometry (LC-MS) to identify toxic exposures can reduce unnecessary testing: a case of guanfacine poisoning*. 43<sup>rd</sup> Congress of the European Association of Poison Centers and Clinical Toxicologists. 05/2023
- Schaffer, David H., et al. "Community-Based, Rapid HIV Screening and Pre-Exposure Prophylaxis Initiation: Findings From a Pilot Program." *Cureus* 14.1 (2022).
- Schaffer, DH; Holstege, CP. "Sedation in the Overdose Patient." *Newsletter of the Blue Ridge Poison Center*. September 2022
- Schaffer, DH, et al. "Long term survival after acute colchicine overdose treated with hemodialysis and plasmapheresis." *Clinical Toxicology*. 2021 Nov;59(11). 1089-1090
- Schaffer DH, Goldfine, C. Nitrous oxide misuse and abuse. *ACEP Tox Newsletter*. 06/2021
- *Nitrous oxide abuse resulting in vitamin B12 deficiency and venous thromboembolism*, New England Regional Toxicology Conference. 03/11/2021
- *A Rapid, Pop-up HIV Screening, Prevention, and PrEP program in Washington, DC*, NIH and AcademyHealth 13<sup>th</sup> Annual Conference on the Science of Dissemination and Implementation in Health, 12/04/2020
- Chiu JS, Lahoud-Rahme M, Schaffer D, Cohen A, Samuels-Kalow M. Kawasaki Disease features and myocarditis in a patient with COVID-19. *Pediatric Cardiology*. 2020 Oct;41(7):1526-8.
- Zhang W, Schaffer DH, Tso LS, Tang S, Tang W, Huang S, Yang B, Tucker JD. Innovation contests to promote sexual health in china: a qualitative evaluation. *BMC public health*. 2017 Dec;17(1):1-7.
- *Crowd Wisdom & Problem Solving: How can Wikimedia Engage?* WikiConference USA, Washington, DC, October 2015

### Other Selected Lectures & Presentations

- *Heavy Metal Poisoning* – Guest Lecture, USCSOMG Multisystem Course
- *The Toxidromes* – Guest Lecture, USCSOMG Multisystem Course
- *Emerging Psychoactive Substances: Considerations in Overdose and Withdrawal* – Grand Rounds, Prisma Health Upstate Department of Psychiatry, 09/11/2024
- *Updates and Trends in Pediatric Poisoning & Overdose* – Grand Rounds, Prisma Health Upstate Departments of Medicine and Pediatrics, 08/16/2024
- *Dietary Supplements: History, Regulation, and Toxicity* – Medical Toxicology Divisional Education Conference, University of Virginia, 06/2023
- *Introduction to Toxicology* – University of Virginia Emergency Medicine Interns, 07/03/2023

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- *Cardiac Glycosides* – University of Virginia Department of Emergency Medicine Educational Conference, 05/24/2023
- *Neurotoxic Metals* – Medical Toxicology Divisional Education Conference, University of Virginia, 04/13/2023
- *Toxic Products in the Emergency Department* – Lecture to University of Virginia Department of Emergency Medicine Educational Conference
- *Airway management in Wilderness Medicine* - Lecture to University of Virginia Wilderness Medicine Students, 10/2022
- *Marine Envenomations* – University of Virginia Wilderness Medicine Education, 10/2022
- *Chronic Acetaminophen Poisoning* – Medical Toxicology Divisional Education Conference, 11/17/2022
- *Barbiturate and Guanfacine Poisonings* – Medical Toxicology Divisional Education Conference, 08/25/22
- *Ocular Trauma* – Massachusetts General Hospital Emergency Medicine Educational Conference, 03/2020
- *Psychosis in the Emergency Department* – Prepared for Oakstone Lectures, 03/2020
- *Acute Coronary Syndromes for the Emergency Clinician* – Prepared for Oakstone Lectures, 03/2020
- *Cathinone Toxicity* – Conference of the Division of Medical Toxicology, Brigham & Women’s Hospital, 11/01/2019
- *HINTS Exam for Posterior Fossa Stroke* – Massachusetts General Hospital Emergency Medicine Educational Conference, 03/05/2019
- *Continuous versus Interrupted Chest Compressions in CPR* – Massachusetts General Hospital Emergency Medicine Educational Conference, 03/05/2019
- *Foreign Bodies in the Hand: Case and Literature Review* – Massachusetts General Hospital Emergency Ultrasound Conference, 02/27/2019
- *Returning Traveler with Fever* – Brigham & Women’s Hospital Emergency Medicine Educational Conference, 02/05/2019
- *Nonprofit and Startup Management* – Lecture to Robin Healthcare Group, 01/30/2019
- *History of HIV in the United States* – Lecture to One Tent Health Summer Fellows, 05/2018

### MEDIA HIGHLIGHTS

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- **Fox Carolina, 2025** – Carbon Monoxide Safety
- **WYFF News 4, 2025** – Hypothermia and Safety in Cold Temperatures
- **WPSA News 7, 2025** – Hypothermia and Safety in Cold Temperatures
- **Georgetown University Health News, 2023** - Barone, G. (July 3). Contemplation in action.
- **Georgetown University Health News, 2023** - Wilpone-Welborn, H. (January 13). One tent health student volunteers gain clinical experience in community settings.
- **POZ, 2022** - Rose, M. (March 30). Intergenerational health. Retrieved from <https://poz.com/article/intergenerational-health>
- **BioLytical, 2021** - (September 27). Rapid HIV testing and prevention in Washington DC with Insti.
- **The Body, 2021** - Patterson, E. (March 15). The One-stop shop where testing for covid and HIV, prep, and voter registration meet. Retrieved from <https://www.thebody.com/article/one-tent-health-covid-testing-hiv-prep-voter-registration>

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- **POZ, 2020** - Straube, T. (April 2). Youth initiative. Retrieved from <https://www.poz.com/article/youth-initiative-one-health-tent>
- **The Washingtonian, 2018** - Olsen, K. (May). Meet the 25-year-olds who are bringing HIV screening to more DC neighborhoods.
- **Washington Blade, 2018** - Jr., L. C. (October 3). D.C. Group provides HIV testing in tent.
- **JAMA, 2018** - Rubin R. Have Tent, Will Do Pop-up HIV Screening. doi:10.1001/jama.2018.16245

## AWARDS

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### **Riggins Medical Scholarship Award**

*University of North Carolina, Chapel Hill* | Awarded 2016

### **Braswell Medical Scholarship Award**

*University of North Carolina, Chapel Hill* | Awarded 2014 – 2015

### **Georgetown University Biology Medal**

*Georgetown University Biology Department* | Awarded 2014

### **American Society of Tropical Medicine and Hygiene**

*Benjamin H. Kean Fellow* | Awarded 2015

### **Infectious Disease Society of America**

*Medical Scholars Program* | Awarded 2015

### **UNC Medical Alumni Loyalty Fund**

*Global Enrichment Fellow* | Awarded 2015

### **NC State University Confucius Institute**

*Summer Scholar* | Awarded 2008 and 2009

## SOCIETY AND COMMITTEE MEMBERSHIPS

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- Pharmacy and Therapeutics Committee, University of Virginia Health, 2022 – 2024
- American Association of Poison Centers (AAPC) AI Workgroup, 2023
- American Medical Association, 2016 – Present
- American College of Medical Toxicologists, 2022 – Present
- American Academy of Clinical Toxicologists, 2022 – Present
- American College of Emergency Physicians, VA Chapter and Toxicology Section Member, 2018 - Present

## BOARD CERTIFICATIONS

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- Medical Toxicology, renews 2029
- Emergency Medicine, renews 2028
- Certified Medical Review Officer (MROCC), renews 2030

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## LANGUAGES

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- English (native)
- Mandarin Chinese (Limited working proficiency)