

## CARSON P. MOORE, PH.D.

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## EDUCATION

**Vanderbilt University; Nashville, TN, United States** August 13, 2021

Ph.D. in Bioanalytical Chemistry, Advisor: David W. Wright, Ph.D.

Dissertation title: "Development of Enhanced Surveillance Tools for Low-Resource Malaria Control and Elimination"

**Mercer University; Macon, GA, United States** May 2016

B.S. in Chemistry, Mercer University Honors College Graduate; 3.47 GPA, Cum Laude

## RESEARCH EXPERIENCE

Postdoctoral Research; Vanderbilt University 2021-present

Primary Investigator: Thomas Scherr; Research Assistant Professor

Improving schistosomiasis surveillance and control efforts through applied mobile applications and mapping strategies.

Doctoral Research; Vanderbilt University 2016-2021

Primary Investigator: David Wright; Dean of Graduate Research, Stevenson Professor of Chemistry

Developed enhanced low-resource diagnostic tests for malaria in Southern Province, Zambia.

Mercer on Mission: Chemistry Field Work; *Mercer University* Summer 2016

Primary Investigator: Adam Kiefer; Associate Professor of Chemistry

Studied localized mercury concentrations in air and water in El Oro Province, Ecuador.

Undergraduate Senior Thesis; Mercer University 2015-2016

Primary Investigator: Dale Moore; Professor of Chemistry

Investigated the near-surface disorder of multi-stage quantum dots.

## PUBLICATIONS

Markwalter, C.F., Kantor, A.G., **Moore, C.P.**, Richardson, K.A., Wright, D. W.; Inorganic Complexes and Metal-Based Nanomaterials for Infectious Disease Diagnostics. *Chem. Rev.*, **2019**, *119* (2), 1456–1518. ([Journal Impact Factor: 52.613](#))

Scherr, T.F., **Moore, C.P.**, Thuma, P.E., Wright, D.W. Evaluating Network Readiness for mHealth Interventions Using the Beacon Mobile Phone App: Application Development and Validation Study. *JMIR mHealth uHealth*, **2020**, *8* (7), e18413. ([Journal Impact Factor: 4.31](#))

Scherr, T.F., Hardcastle, A. N., **Moore, C.P.**, DeSousa, J.M., Wright, D.W. Understanding On-Campus Interactions With a Semiautomated, Barcode-Based Platform to Augment COVID-19 Contact Tracing: App Development and Usage. *JMIR mHealth uHealth*, **2021**, 9 (3), e24275 (Journal Impact Factor: 4.31)

Scherr, T.F., DeSousa, J.M., **Moore, C.P.**, Hardcastle, A. N., Wright, D.W. Usage and usability impressions of a barcode-based digital contact tracing platform for COVID-19. *JMIR Public Health Surveill, COVID-19 special issue*. **2021**, 7 (3), e25859 (Journal Impact Factor: 4.11).

**Moore, C.P.**, Scherr, T.F., Matoba, J., Sing'anga, C., Lubinda, M., Thuma, P.E., Wright, D.W. mHAT app for automated malaria elimination campaign surveillance: a pilot study. *Malar J.*, **2021**, 20, 237. (Journal Impact Factor: 3.109)

**Moore, C.P.**, Pieterse, K.P., DeSousa, J.M. Gibson, L E., Wright, D.W. Characterization and utility of immobilized metal affinity-functionalized cellulose membranes for point-of-care malaria diagnostics. *J Chromatogr B.*, **2021**, 1186, 123023. (Journal Impact Factor: 3.004)

## CONFERENCES & PRESENTATIONS

Vanderbilt University Department of Engineering	2022
<i>Invited lecturer</i> , "Creating Enhanced Diagnostics for Malaria Elimination"	
Leiden University Medical Center Virtual Expert Focus Group	2021
<i>Invited expert</i> , Exploring digital technology for improved detection of schistosome CAA/CCA: From strip readers to e-health	
American Society of Tropical Medicine and Hygiene Annual Meeting	2019
"Integrating Vertical and Lateral Flow Assays for Improved Diagnosis of Asymptomatic Malaria Infections"	
Malaria (Gordon Research Seminar and Conference)	2019
"Integrated Rapid Diagnostic Tests with Metal-Functionalized Cellulose for Detection of Asymptomatic Malaria Infections"	
Fogarty International Center (FIC) mHealth Network Meeting	2019
"Beacon: A tool for evaluating mHealth readiness in global health"	
Vanderbilt Institute of Chemical Biology Student Research Symposium	2018
"Metal-Functionalized Cellulose for Enhanced Detection of Two Malarial Biomarkers"	
Vanderbilt Institute of Chemical Biology Student Research Symposium	2017
"Catch-and-Release Flow Through Strategy for Enhancement of Multiplex Malaria Diagnostics"	
South Eastern Regional American Chemical Society Meeting; Columbia, SC	2016
"Using digital documentaries to encourage student reflection after international service learning experiences."	

## GRANTS & FELLOWSHIPS

VUMC Clinical and Translational Award (TL1) Postdoctoral Training Program, <i>Vanderbilt University</i>	2022
Vanderbilt University Graduate Student Travel Grant to Present Research	2019
VICB Fellowship in Chemical Biology; <i>Vanderbilt University</i>	2016

## HONORS & AWARDS

Vanderbilt Institute of Chemical Biology Student Symposium Poster Award Winner	2018
Dean's List; <i>Mercer University</i>	2015-2016
President's List; <i>Mercer University</i>	2013

## MEMBERSHIPS & LEADERSHIP POSITIONS

United to Beat Malaria U.S. Congressional Champion	2022
<i>United to Beat Malaria Leadership Summit, March 2022</i>	
<i>Global Fund Replenishment Advocacy Day, September 2022</i>	
American Society of Tropical Medicine and Hygiene	2018-present
Vanderbilt University Warren Committee	2017
American Chemical Society	2016-2019
Women in Math and Science; <i>Mercer University</i>	2016
Outreach Chair	
Gamma Sigma Epsilon Chemistry Honor Society; <i>Mercer University</i>	2016

## TEACHING EXPERIENCE

General Chemistry I Teaching Assistant; <i>Vanderbilt University</i>	2020
General Chemistry II Discussion Teaching Assistant; <i>Vanderbilt University</i>	2018-2021
Private Tutoring for High School Chemistry; <i>Nashville, TN</i>	2016-2017
Analytical Chemistry Teaching Assistant; <i>Mercer University</i>	2015-2016
General Chemistry I Teaching Assistant; <i>Mercer University</i>	2014-2015
Writing Preceptor; <i>Mercer University</i>	2014