

**Duduzile Phindile Mashinini** dmashinini@unc.edu | 989-884-2704

### *Education & Training*

**Ph.D.:** Interdisciplinary Health Sciences

Western Michigan University | Kalamazoo, MI

**Dissertation title:** The Impact of Michigan's Administrative Rule/Policy Change for Non-medical Vaccine Exemptions

**Master of Science:** Experimental Psychology

Northern Michigan University | Marquette, MI

**Thesis title:** Sexual Attitudes and Perceptions of Gendered Sexual Roles from the Perspective of Urban South African Women

**Bachelor of Science:** Psychology, Minor: Performance Theatre

Northern Michigan University | Marquette, MI

### *Research Interests*

Utilizing interdisciplinary methodology to address pressing public health issues such as vaccine hesitancy and HIV/AIDS. Applying methodologies including geographic information systems (GIS) to aid in targeted implementation of successful health interventions thus guiding the best use of limited public health resources. Applying a psychological framework to understand and inform public health efforts, including the examination of socio-cultural, socio-political, socio-economic, and socio-demographic barriers to health.

### *Current Position*

**Biosocial Postdoctoral Scholar**

University of North Carolina Chapel Hill | Chapel Hill, NC | August 2021 – Present

Involved in interdisciplinary research projects employing creative and integrative approaches to understanding the complex factors that influence health and health disparities across the life course. Including projects examining barriers to COVID-19 vaccine uptake and vaccine hesitancy.

### *Peer Reviewed Publications*

Nurjannah, N., Baker, K. M., & Mashinini, D. P. (2021). [Spatiotemporal trends in diabetes-related mortality by school district in the state of Michigan](https://doi.org/10.4178/epih.e2021098). *Epidemiology and health*, e2021098. Advance online publication. <https://doi.org/10.4178/epih.e2021098>.

Mashinini, D.P. Fogarty, K.J., Potter, R.C., & Berles, J.D. (2020). [Geographic hot spot analysis of vaccine exemption clustering patterns in Michigan from 2008 to 2017](https://doi.org/10.1016/j.vaccine.2020.10.091). *Vaccine*, 38(51), 8116-8120. <https://doi.org/10.1016/j.vaccine.2020.10.091>.

Mashinini, D.P., Fogarty, K.J., Potter, R.C., Lagerwey, M.D. (2019). [The impact of Michigan's nonmedical vaccine exemption rule change on philosophical exemption rates](https://doi.org/10.1007/s10900-019-00727-5). *Journal of Community Health*. <https://doi.org/10.1007/s10900-019-00727-5>.

**Mashinini, D. P., & Pelton-Cooper, M. (2012).** [HIV risk in a group of educated urban Black African women in South Africa: private accounts of gendered power dynamics](#). *Feminism & Psychology*, 22(2), 204-219. doi: 10.1177/0959353512439190.

#### *Manuscripts Submitted or In Revision*

Kahn, K., Pettifor, A., Mataboge, P., Kelly, N.K., **Mashinini, D.P.**, Nair, H., Campbell, H., Cohen, C., Gómez-Olivé, F.X., Tollman, S. (2021). Vaccine hesitancy in rural South Africa: deepening understanding to increase uptake and access. *JAMA*. Submitted.

**Mashinini, D.P.**, Lagerwey, M.D., Fogarty, K.J. (2021). Methods of current practice: Qualitative analysis of intervention strategies utilized by vaccine waiver educators. *Policy Polit Nurs Pract*. Submitted.

#### *Manuscripts In Preparation*

**Mashinini, D.P.**, Kelly, N.K., Delamater, P. Demographic Factors of Vaccine Uptake Among Blacks in Detroit Michigan: A Community-Level Analysis

**Mashinini, D.P.**, Fogarty, K.J., Lagerwey, M.D. Michigan's administrative rule change for nonmedical vaccine exemptions: Upholding freedom of choice or forced into compliance?

#### *Conference Presentations*

Mashinini, D.P. (2020, September). Geographic hot spot analysis of vaccine exemption clustering patterns in Michigan from 2007-2016. 14<sup>th</sup> Vaccine Congress-online edition. Poster.

Mashinini, D.P. (2020, September). Methods of current practice: Qualitative analysis of intervention strategies utilized by vaccine waiver educators in Michigan. 14<sup>th</sup> Vaccine Congress-online edition. Poster.

Mashinini, D.P. (2016, October). Philosophical immunization exemption rates among kindergartens: The effect of Michigan's 2015 nonmedical exemption policy change. Michigan AGEP Alliance Fall Conference, East Lansing, Michigan. Oral.

Mashinini, D.P. (2016, July). Philosophical immunization exemption rates among kindergartens: The effect of Michigan's 2015 nonmedical exemption policy change. Interdisciplinary Research Conference, Western Michigan University, Kalamazoo, Michigan. Oral.

Radi, J.K., Mashinini, D.P., Curtis, A.B. (2016, July). Deployment Preparedness, a Qualitative Assessment of Currently Deployed US Army National Guard Combat Medics. Interdisciplinary Research Conference, Western Michigan University, Kalamazoo, Michigan. Poster.

Mashinini, D.P. (2009, March). Attitudes and perceptions of gendered sexual roles, from the perspective of urban South African women. Association for Women in Psychology (AWP) Conference, Newport, Rhode Island. Poster.

#### *Other Presentations*

Mashinini, D.P. (2019, February). Methods of current practice: A qualitative analysis of vaccine waiver educators' intervention strategies employed during nonmedical vaccine waiver education

in Michigan. Michigan Department of Health and Human Services (MDHHS), Statewide Local Health Jurisdiction Immunization Coordinator's meeting. Oral.

Mashinini, D.P. (2017, June). Philosophical immunization exemption rates among kindergartens: The effect of Michigan's 2015 nonmedical exemption rule change. Centers for Disease Control and Prevention (CDC) Immunization Division Branch meeting. Oral.

Mashinini, D.P. Attitudes and perceptions of gendered sexual roles, from the perspective of urban South African women. (2009, September). Colloquium Series sponsored by the Department of Psychology, Northern Michigan University, Marquette, Michigan. Oral.

Pascoe, N., Mashinini, D.P., Leith, C. & Burns, S. (2002, April). Mental Rotations and perceptual learning in college students. Northern Michigan University's Annual Spring Colloquium, Marquette, MI. Oral.

### *Funding / Grants*

AmeriCorps Youth Volunteer Corps Service-Learning Implementation Grant. \$5,000. 2006  
Kickstarter – Funded to attend International Congress of Psychology conference. \$800. 2010

### *Honors and Awards*

Thurgood Marshall Fellowship, 2014-2018, Western Michigan University  
Pisaneshi Prize for Best Scientific Presentation, 2016, Interdisciplinary Doctoral Research Conference, Western Michigan University  
Nomination for 2009 Outstanding Graduate Student, 2010, Northern Michigan University  
King, Chaves, Parks: Future Faculty Fellowship, 2007, Northern Michigan University  
Graduate Teaching Assistantship, 2007-2009, Northern Michigan University  
Bachelor of Science Honorary Graduate (cum laude), 2003, Northern Michigan University  
John P. Johansen Memorial Scholarship, 2002-2003, Northern Michigan University  
Susan P. Manley Memorial Scholarship, 2002, Northern Michigan University  
International Academic Award, 2001-2003, Northern Michigan University  
National Honor Society in Psychology (Psi Chi), 2000, Northern Michigan University  
Adventure Travel International Scholarship, 2000, Northern Michigan University  
International Student Scholarship, 2000, Northern Michigan University  
International Student Award, 2000, Northern Michigan University

### *Past Positions*

#### **Health Science Instructor**

Western Michigan University | Kalamazoo, MI | August 2016 – June 2021

HSV 2250: Life Span Development

HSV 3700: U.S. Health Care System

Teaching Portfolio: <https://wordpress.com/view/duduzilephindimashinini.wordpress.com>

#### **COVID-19 Case Investigator/ Contact Tracer**

District Health Department # 4 | Alpena, MI | April 2021 – June 2021

#### **Thurgood Marshall Research Fellow**

Western Michigan University | Kalamazoo, MI | July 2014 – July 2018

Applied quantitative, qualitative, and GIS methods to conduct a three-part epidemiological study evaluating the impact of Michigan's nonmedical vaccine exemption policy change in with Michigan

**Co-Investigator**

Western Michigan University | Kalamazoo, MI | October 2016 – October 2017

Deployment preparedness among currently deployed US Army Combat Medics

**Psychology Instructor**

Alpena Community College | Alpena, MI | August 2011 – May 2012, May 2009 – June 2009

PSY 226 - Developmental Psychology

**Graduate Psychology Teaching Assistant**

Northern Michigan University | Marquette, MI | August 2007 – May 2009

PSY 100L: Introductory psychology laboratory science sections

**Graduate Research Assistant**

Northern Michigan University | Marquette, MI | August 2007 – May 2009

Applied mixed method analysis examining HIV risk among educated Black African Women in South Africa

*Professional Affiliations*

Michigan Public Health Association (MPHA) – June 2020 – June 2021

Epidemiology and Policy Committee

Psi Chi Psychology National Honor Society – lifelong member

*Service to Profession*

**Manuscript Reviewer:** The *Lancet*

**Abstract Reviewer:** International Congress of Psychology (ICP) – July 2010

*Service to Community*

**COVID-19 Volunteer Contact Tracer:** Michigan Department of Health and Human Services (MDHHS) – May 2020 – December 2020

Currently supporting the state of Michigan in their efforts to contact individuals with suspected or confirmed COVID-19 infection

**COVID-19 GISCorps Volunteer:** ESRI GISCorps – March 2020 – August 2021

Currently contributing to nationwide creation of geographic information system testing and vaccination sites layer, mapping COVID-19 testing & vaccination-sites in the United States. The GIS dataset forming the website [findingcovidtesting.com](https://findingcovidtesting.com) contributes to an open dataset that serves FEMA and other public health agencies and NGOs

**Humanitarian OpenStreetMap Team (HOT) Volunteer** – February 2020 – Present

Involved in closing mapping gaps by providing map data around the world in areas susceptible to or identified as impacted by COVID-19 outbreak in partnership with international agencies such as the United Nations Humanitarian Data Exchange

**Board of directors:** Art in the Loft – December 2019 – August 2021

Advocate for and ambassador of the arts. Engaged in securing funding and developing partnerships to advance the arts within the local community

*Continuing Training & Education*

Contact Tracing Training - MDHHS – 3-hour course	2020
COVID-19 Testing, Tracing, and Tracking, University of Michigan – 1hour course	2020
Practical Epidemiology Management Tools Course (MI-TRAIN) – 1 hour course	2020
COVID-19 Contact Tracing Course (MI-TRAIN) – 30 min course	2020
Michigan’s Annual Immunization Conference	2019
Michigan’s Annual Immunization Conference	2018
Michigan’s Annual Immunization Conference	2016
Epidemiology and Public Health, Michigan State University	2016
Geographic Information Systems (GIS), Alpena Community College	2016
Centers for Disease Control & Prevention Pink Book Class	2015
Community Change in Public Health, Johns Hopkins Bloomberg School of Public Health	2012

*Skills*

- |  |                                   |
|--|-----------------------------------|
| • Quantitative & Qualitative data analysis | • Interdisciplinary collaboration |
| • SPSS                                     | • Public health & policy analysis |
| • Geospatial Analysis (ArcGIS)             | • Training & presentation         |
| • Manuscript writing and editing           | • Program evaluation              |
| • Questionnaire design                     | • Crisis management               |

*Languages*

- |                        |                          |
|------------------------|--------------------------|
| • Zulu – Native        | • Xhosa – basic          |
| • English – Fluent     | • Afrikaans – elementary |
| • Swati – intermediate | • French – elementary    |
| • Sotho-intermediate   |                          |