

Ayanda M. Masilela

Doctor of Philosophy

EDUCATION

UNIVERSITY OF WASHINGTON

September 2014 - June 2024

PhD in Geography, *summa cum laude*

Seattle, WA

Certificate in Gender, Women, and Sexuality Studies

- Dissertation Title: *Leisures of Responsibility: Spatializing Care and Wellness in Martial Arts Practice*
- Committee: Michael Brown, Kim England, Lawrence Knopp

VIRGINIA TECH

August 2012 - August 2014

Master of Science in Geography, *summa cum laude*

Blacksburg, VA

- Master's Thesis Title: *Discerning Neighborhood Characteristics as Contributing Factors for Infant Mortality in the Northern Plains*

INDIANA UNIVERSITY OF PENNSYLVANIA

August 2006 - December 2010

Bachelor of Arts, Geography/GIS and Cartography Concentration, *magna cum laude*

Indiana, PA

Dual Major Asian Studies

Robert E. Cook Honors College

- Ronald E. McNair Post-Baccalaureate Achievement Program | 2008-2010
- McNair Honors Thesis: *Digitally Re-mastered: Relearning the Nation's Highway System Through Computer Generated Simulations*

NAGOYA GAKUIN DAIGAKU

March - July 2009

Study Abroad

Nagoya, Aichi, Japan

- Japanese Language, History, and Culture

UNIVERSITY APPOINTMENTS

UW Northwest Center for Public Health Practice

December 2024 - Present

Geospatial Analyst

Seattle, WA

- Lead author for Activity #1 of the report *Oregon Health Authority Public Health Department Landscape Assessment (2025)*
- Analysis of vaccine availability and demographic factors of vulnerability in rural Oregon
- A first of its kind implementation of geospatial technologies in the analysis and decision-making processes of the Oregon Health Authority

UW Continuum College

September 2024 - Present

Instructor

Seattle, WA

- C GIS 550 C: GIS In Practice In The Pacific Northwest
- C GIS 530 C: GIS Project Planning and Implementation
- C GIS 510 C: Principles of Cartography and Thematic Mapping

UW Center for Social Science Computation and Research (CSSCR)

January 2018 - June 2024

Research Consultant

Seattle, WA

- Assist faculty and students with research design and software usage
- Conduct quarterly workshops on software usage and research methods
- Classroom support and specialized workshops for affiliated departments

UW Department of Geography

June 2016, Mar 2018 - Feb 2019, Mar 2021 - June 2022

Research Assistant

Seattle, WA

- NSF Project Title: *Shifting Spatialities of LGBTQ Life*
- Amass and categorize raw locational data from historical resources
- Database construction, geocoding, and spatial analysis

- GEOG 360: *Principles of GIS Mapping* - an introductory seminar detailing the structure, functionality, and applications of Geographic Information Systems
- GEOG 317: *Geographic Information and Spatial Analysis* - basic analytical techniques using ESRI software and adjacent platforms, including SPSS and Tableau
- GEOG 258: *Digital Geographies* - a comprehensive course on the creation and usage of geographic information online, including website publication using HTML, CSS, and Javascript
- GEOG 277: *Geography of Cities* - an introductory course on urban studies reviewing classics of urban critical theory and contemporary reflections inclusive of Global South urbanization
- GEOG 469: *GIS Workshop* - a project-based course during which students help local agencies achieve their goals of implementing geographic information systems of various kinds in their operations, including web-based publication, spatial analytic, and cartographic techniques

- GEOG 360: *Principles of GIS Mapping* - Technical Support and Training | Spring 2022
- GEOG 381: *Maps and Health* - Technical Support | Summer 2021
- GEOG 123: *Introduction to Globalization* - Assignment and Exam Grading | Fall 2020
- GEOG 317: *Geographic Information and Spatial Analysis* - Substitute TA | Winter 2017
- GEOG 375: *Geopolitics* - Exam Grading | Winter 2017
- GEOG 425: *Qualitative Methodology in Geography* - Assignment Grading | Winter 2015

- Epidemiological Spatial Analysis
- Land Use
- Geoprocessing

- GEOG 1004: Introduction to Human Geography
- GEOG 4054: Geography of Wine
- GEOG 4074/5074: Medical Geography
- GEOG 4204: Geography of Resources

COMPLEMENTARY EMPLOYMENT & SERVICE

Public Health Reserve Corps

February 2025 - Present

Volunteer

Seattle, WA

- Community clinic operational assistance and support staff
- Narcan and Bleed Kit Preparation

Research Collaboration

January 2020 - October 2020

Research Consultant under Professor Kathie Friedman, PhD

Seattle, WA

- Qualitative methodologies needs assessment
- Coding and Data Extraction in Atlas.ti

Puget Sound SAGE

September 2019

Independent Contract: GIS Analyst and Cartographer

Seattle, WA

- Analysis of residential redevelopment impacts due to Seattle's Link Light Rail expansion
- Produce cartographic representations of research findings

Health Promotion Research Center, University of Washington

September 2019 - October 2019

Independent Contract: Workshop Instructor

Seattle, WA

- Design and teach a specialized workshop on SPSS syntax
- Quantitative Research Methods in Health Research
- Produce and distribute an online workbook on SPSS syntax

Northwestern Human Services

July 2013 - July 2014

Direct Support Professional

Indiana, PA

- Assist older teenagers and adults who have intellectual/developmental disabilities with daily life goals and efforts towards a more independent life where possible

- Database development of PLANPGH's Pittsburgh Cultural Heritage Plan
- Original data sourcing and editing
- Compilation of historical and modern resources to identify locations and verify conflicting information
- Remote conferencing via Skype

FELLOWSHIPS & SCHOLARSHIPS

The Black Embodiments Studio

The Simpson Center for the Humanities, University of Washington | Winter 2018 - Fall 2019

Joff Hanauer Endowment for Excellence in Western Civilization Graduate Fellowship

The Simpson Center for the Humanities, University of Washington | Fall 2017 - Spring 2018

Howard Martin Research Grant

Department of Geography, University of Washington | Spring 2017

Department of Geography Diversity Scholarship

University of Washington | September 2014

GO-MAP (now GSEE) Doctoral Student Fellowship

University of Washington | Fall 2014 - Spring 2015

Ronald E. McNair Graduate Assistantship

Virginia Polytechnic Institute and State University | Fall 2012 - Spring 2013

Robert E. Cook Honors College Travel Enhancement Fund

Indiana University of Pennsylvania | Spring 2009

Other Scholarships

National Women's Martial Arts Federation Work Study Scholarship

Naperville, IL | March 2016

Pacific Association of Women Martial Artists Work Study Scholarship

Boulder Creek, CA | March 2015

HONORS

Geography Award for Outstanding Teaching Assistant

University of Washington Department of Geography | 2017

American Association of Geographers/National Council for Geographic Education Award

Indiana University of Pennsylvania Department of Geography | May 2011

Exceptional Student Award, African American Cultural Center Fall Pre-Commencement Program

Indiana University of Pennsylvania | December 2010

Provost Scholar

Indiana University of Pennsylvania | Fall 2008

Dean's List

Indiana University of Pennsylvania | Fall 2006 - Fall 2010

CONFERENCES

A. Masilela (2023) "Latitude through Leisure: Exploring Care in the Practice of Martial Arts"

American Association of Geographers Annual Meeting

Virtual | May 23-27, 2023

A. Masilela (2019) "Developing Liberatory Curricula in the Martial Arts: Anti-Racism and Beyond"

Martial Arts Studies Research Network Annual Conference

Chapman University in Orange, CA | May 23-24, 2019

A. Masilela (2019) "Hands that hurt and heal: Trainer as "Care-giver" and Trainee as "Cared-for" in Martial Arts and Self-Defense Practice"

Taking Care: A Conference for Engaging the Politics, Process, and Ethics of Care Work

The University of Washington in Seattle, WA | May 3-4, 2019

A. Masilela (2019) "Considering Context for the Development of Liberatory Curricula in the Martial Arts"

American Association of Geographers Annual Meeting

Washington, DC | April 5, 2019

A. Masilela (2016) "Migration, Segregation, and the Proliferation of Martial Arts in the Western United States: An Overview"

Association of Washington Geographers Annual Meeting

Seattle, WA | May 21, 2016

A. Masilela (2014) "Discerning Neighborhood Characteristics as Contributing Factors to Infant Mortality in the Northern Plains"

American Association of Geographers Annual Meeting

Tampa, FL | April 8, 2014

A. Masilela (2014) "Discerning Neighborhood Characteristics as Contributing Factors to Infant Mortality in the Northern Plains"

3rd Annual College of Liberal Arts and Human Sciences Forum on Human Rights: "Engendering Human

Rights"

Virginia Tech in Blacksburg, VA | February 28, 2014
Awarded Best Graduate Student Presentation

A. Masilela (2012). "Conservation in Crisis: A Story of Community Resistance Against Hydraulic Fracturing in the Yellow Creek Conservation Zone"

Southeastern Division of the Association for American Geographers Annual Meeting
Asheville, NC | November 18-20, 2012

A. Masilela, Z. Afshar, T. Iwase and M. Turner (2010). "A GIS-Based Analysis of Nuisance Properties in the Indiana Borough: 2007 & 2009 |An Ongoing Study)".

Undergraduate Research at the Capitol Event, sponsored by the Legislative Office for Research Liaison
Harrisburg, PA | October 5, 2010

Presentation to the Indiana Borough Police and the Borough Planning Department
Indiana, PA | April 24, 2010

5th Annual Undergraduate Scholars Forum, Indiana University of Pennsylvania
Indiana, PA | April 1, 2010

Tied 1st for *Best Poster* from the College of Humanities and Social Sciences

Student Representative at the Pennsylvania State System of Higher Education Lesbian, Gay, Bisexual, Transgender, Queer, Intersex, and Allies (PASSHE LGBTQIA) Consortium

Penn State University
State College, PA | October 30-31, 2009

A. Masilela (2008). "Digitally Re-mastered: Relearning the Nation's Highway System Through Computer Generated Simulations"

The 16th Annual University of Buffalo National McNair Research Conference
SUNY Buffalo, NY | July 2008

McNair Scholars Program Summer Research Symposium, Indiana University of Pennsylvania
Indiana, PA | June 2008

GUEST LECTURES

"Preparing for Interviews: Lessons from the Field and YouTube Video Production" and "Introduction to Atlas.ti"

University of Washington Department of Geography | Spring 2023

Presented in GEOG 525: *Qualitative Methods*

"Food Justice, Housing Justice, Economic Justice... Leisure Justice?"

University of Washington Department of Geography | Winter 2021

Presented in GEOG 377: *Urban Political Geography*

"Urban Spatial Reclamation through the Body: Sport and Leisure as Liberatory Praxis Among Marginalized Groups"

University of Washington Department of Geography | Winter 2018

Presented in GEOG 476: *Women and the City*

"Gendered Discourses of Public Space: Utilizing softball as liberatory praxis and a conduit for feminist political organizing"

University of Washington Department of Geography | Winter 2017

Presented in GEOG 476: *Women and the City*

"Careers in GIS: Selling yourself in a world of non-geographers"

University of Washington Department of Geography | Spring 2016

Presented in GEOG 360: *Principles of GIS Mapping*

RESEARCH PROFICIENCIES

Qualitative Methods

Software: Atlas.ti, Audacity, Shotcut

- Semi-Structured Interviews
- Participant-Observation
- Landscape Characteristic Analysis
- Conceptual and Relational Content Analysis

Geographic Information Systems

Software: QGIS, ArcGIS Pro, ArcGIS (9.2 - 12.0)

Field Data Collection: Fulcrum, QField

Web-based: ArcGIS Online, CartoDB, Google MyMaps

- Spatial Analysis
- Spatial Statistics
- Network Analysis
- American Community Survey
- US Census TIGER/Line Geodatabases
- University of Wisconsin Neighborhood Area Deprivation Index Atlas

Quantitative Methods

Software: SPSS, Tableau, JMP

- Descriptive, Inferential, Exploratory, and Predictive Analyses
- Likert Scales and Reliability Testing

Data Visualization and Dashboards

Software: Tableau, IBM Cognos Analytics, ArcGIS Experience Builder

Programming and Syntax

- SPSS Syntax: Intermediate
- HTML and CSS: Intermediate
- Python: Beginner
- Javascript: Beginner

DEPARTMENTAL SERVICE

Online Educational Resource Repository and YouTube Channel

CSSCR and the UW Dept. of Geography | Summer 2018 - Present

<https://students.washington.edu/ayandm/tutfiles/>

Ongoing production of written technical tutorials and instructional YouTube videos for students to self-pace through the early stages of learning statistical and GIS software suites. These tutorials include ArcMap, Atlas.ti, QGIS, SPSS, and Tableau.

Geography Graduate Students Association Co-President

University of Washington Department of Geography | Fall 2019 - Spring 2021

Colloquium Committee

University of Washington Department of Geography | Fall 2016 - Spring 2018

GO-MAP (now GSEE) Diversity Scholar

UW Office of Graduate Student Equity and Excellence | Fall 2014 - Spring 2015

Coffee Hour Committee

University of Washington Department of Geography | Fall 2014 - Spring 2015

VOLUNTEER/SERVICE RESEARCH

Upward Bound Math and Science, Indiana University of Pennsylvania **January 2022 - May 2022**

Statistics and GIS Consultant

(Remote) Seattle, WA

- Assist UBMS in the composition of their grant proposal for federal funding (2022 cycle)
- Interface data from the US Census and the Pennsylvania Department of Education using SPSS and QGIS
- Create data visualizations in Tableau

Coalition for a Healthy County

June 2011 - June 2013

GIS and Real Map Analyst Internship

Murrysville, PA

- Preparation of community education materials detailing the state of Marcellus Shale drilling practices
- Land use policy assessment
- Routine stakeholder collaboration with local community organizations

Upward Bound Math and Science, Indiana University of Pennsylvania **August 2011 - June 2012**

Statistics and GIS Consultant

Indiana, PA

- Assist UBMS in the composition of their grant proposal for federal funding (2012 cycle)
- Interface data from the US Census and the Pennsylvania Department of Education using ArcMap
- Comparative analysis of change over time and the production of textual reports