

# BRIANNE OLIVIERI-MUI, PHD, MPH

Northeastern University

Boston, MA

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## EDUCATION

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2021	Boston, MA	<b>The Marcus Institute for Aging Research, Hebrew SeniorLife, Harvard Medical School</b> Post-doctoral research fellowship
2019	Boston, MA	<b>Northeastern University, Bouve College of Health Sciences</b> PhD in Population Health
2012	New York, NY	<b>City University of New York, Hunter College School of Public Health</b> Masters in Urban Public Health: Epidemiology and Biostatistics
2005	Burlington, VT	<b>University of Vermont (UVM)</b> Bachelor of Science: Biology, Minor: Chemistry

## PUBLIC HEALTH RESEARCH EXPERIENCE

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2021-Present	Boston, MA	<b>Northeastern University</b> Assistant Professor, Department of Health Sciences and The Roux Institute
2019-2021	Boston, MA	<b>The Marcus Institute for Aging Research, Harvard Medical School</b> Post-doctoral Research Fellow
2015-2019	Boston, MA	<b>Northeastern University</b> Graduate Research Assistant
2012-2015	Brooklyn, NY	<b>Montefiore Hospital, Fire Department of New York</b> Biostatistician/Data analyst
2012	New York, NY	<b>Center for Health, Identity, Behavior and Prevention Studies, NYU</b> Graduate Intern

## GRANTS RECEIVED

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2021	Northeastern University-University of Maine Seed Grant Program, \$25,000 (Co-PIs Brianne Olivieri-Mui and Kathryn Robinson [Umaine])
2019-2021	Harvard Translational Research in Aging Training Program T32 T32 AG023480 (PI Lew Lipsitz)
2018	Agency for Healthcare Research and Quality R36 Dissertation Grant R36HS025662-01A1 (PI Brianne Mui)
2003	Hughes Endeavor for Life Science Excellence (HELiX) Grant, UVM

## PUBLICATIONS/ABSTRACTS

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### PEER REVIEWED PUBLICATIONS

1. **Olivieri-Mui, B.**, Shi, S. M., McCarthy, E. P., & Kim, D. H. (2021). Frailty and Differences in Self-Reported Sexual Functioning Among Older Females and Males in National Social life, Health and Aging Project. *Journal of Aging and Health*, 89826432110537–8982643211053772. <https://doi.org/10.1177/08982643211053772>

2. Chan, C. T., **Olivieri-Mui, B. L.**, & Mayer, K. H. (2021). Associations between State-Level High School HIV Education Policies and Adolescent HIV Risk Behaviors. *The Journal of School Health*. <https://doi.org/10.1111/josh.13130>
3. Shi SM, **Olivieri-Mui B**, McCarthy EP, Kim DH. Changes in a Frailty Index and Association with Mortality. *J Am Geriatr Soc*. 2021 Apr;69(4):1057-1062. doi: 10.1111/jgs.17002. Epub 2020 Dec 29. PMID: 33377190; PMCID: PMC8071066.
4. **Olivieri-Mui BL**, Shi SM, McCarthy EP, Habtemariam D, Kim DH. Beyond the Health Deficit Count: Examining Deficit Patterns in a Deficit-Accumulation Frailty Index. *J Am Geriatr Soc*. 2021 Mar;69(3):792-797. doi: 10.1111/jgs.16955. Epub 2020 Nov 25. PMID: 33236789; PMCID: PMC8049510.
5. Briesacher BA, Koethe B, **Olivieri-Mui B**, Saczynski JS, Fick DM, Devlin JW, Marcantonio ER. (2020). Association of Positive Delirium Screening with Incident Dementia in Skilled Nursing Facilities. *J Am Geriatr Soc*. Epub ahead of print. doi: 10.1111/jgs.16830.
6. **Olivieri-Mui B**, McGuire J, Griffith J, Cahill S, Briesacher B. (2020). Exploring the association between the quality of HIV care in nursing homes and hospitalization. *J Healthc Qual*. Vol.Publish Ahead of Print.
7. Briesacher, B., **Olivieri-Mui, B.**, Chhabra, B., & Koethe, B. (2020). Adequacy of Prescription Drug Coverage in Long-Term Care. *Medical Care*. Advance e-publication: doi: 10.1097/MLR.0000000000001291
8. **Olivieri-Mui B**, McGuire J, Griffith J, Cahill S, Briesacher B. (2020). Assessing the Quality of Human Immunodeficiency Virus Care in Nursing Homes. *J Am Geriatr Soc*. 68(6):1226-1234. doi:10.1111/jgs.16359
9. **Olivieri-Mui, B. L.**, Koethe, B., & Briesacher, B. (2019). Economic Barriers to Antiretroviral Therapy in Nursing Homes. *J Am Geriatr Soc*. 68(4):777-782. doi:10.1111/jgs.16288
10. **Olivieri-Mui, B.** (2019). Access to HIV Medication in the Community versus a Nursing Home for the Medicare Eligible HIV Population. *Delaware Journal of Public Health*. Vol. 5(2) Pp.74-78.
11. Briesacher, B. A., **Mui, B.**, Devlin, J. W., & Koethe, B. (2019). Nursing homes underreport antipsychotic prescribing. *Aging Mental Health*. 24(4):668-672. doi:10.1080/13607863.2019.1571015
12. **Olivieri-Mui, B.**, McGuire, J.F., Griffith, J., Cahill, S., Briesacher, B. (2019). People living with HIV/AIDS in U.S. Nursing Homes in the 4th Decade of the Epidemic. *Journal of the Association of Nurses in AIDS Care*.
13. LeVasseur, M., Goldstein, N., Tabb, L., **Olivieri-Mui, B.**, Welles, S. (2018). The Effect of PrEP on HIV Incidence Among Men Who Have Sex With Men in the Context of Condom Use, Treatment as Prevention, and Seroadaptive Practices. *JAIDS*. Vol.77(1), pp.31-40.
14. **Olivieri-Mui, B.**, Devlin, J., Ochoa, A., Schenk, D., Briesacher, B. (2017). Perceptions vs. Evidence: Therapeutic Substitutes for Antipsychotics in Patients with Dementia in Long Term Care. *Aging and Mental Health*. Vol.22(4), pp.544-549.
15. Khodyakov D, Ochoa A, **Olivieri-Mui BL**, et al. Screening Tool of Older Person's Prescriptions/Screening Tools to Alert Doctors to Right Treatment Medication Criteria Modified for U.S. Nursing Home Setting. *J Am Geriatr Soc*. 2017;65(3):586-591. doi:10.1111/jgs.14689
16. Kwon, S., Putman, B., Weakley, J., Hall, C. B., Zeig-Owens, R., Schwartz, T., **Olivieri, B.**, Singh, A., Huie, M., Morrison, D., Webber, M. P., Cohen, H. W., Kelly, K. J., Aldrich, T. K., Nolan, A., Prezant, D. J., Shohet, M. R., Weiden, M. D. (2016). Blood Eosinophils and World Trade Center Exposure Predict Surgery in Chronic Rhinosinusitis. A 13.5-Year Longitudinal Study. *Ann Am Thorac Soc*. Vol.13(8), pp. 1253-61. doi: 10.1513/AnnalsATS.201511-742OC.
17. Yip, J., Zeig-Owens, R., Hall, C. B., Webber, M. P., **Olivieri, B.**, Schwartz, T., Kelly, K., Prezant, D. J. (2016). Health Conditions as Mediators of the Association Between World Trade Center Exposure and Health-Related Quality of Life in Firefighters and EMS Workers. *Journal of occupational and environmental medicine / American College of Occupational and Environmental Medicine*. Vol.58(2), pp.200-6.
18. Hall, C. B., Liu, X., Zeig-Owens, R., Webber, M. P., Aldrich, T. K., Weakley, J., Schwartz, T., Cohen, H. W., Glaser, M. S., **Olivieri, B. L.**, Weiden, M. D., Nolan, A., Kelly, K. J., Prezant, D. J. (2015). The Duration of an Exposure Response Gradient between Incident Obstructive Airways Disease and Work at the World Trade Center Site: 2001-2011. *PLoS currents*, Vol.7.

19. Kapadia, F., Siconolfi, D.E., Barton, S., **Olivieri, B.**, Lonbardo, L., Halkitis, P.N. (2013). Social support network characteristics and sexual risk taking among a racially/ethnically diverse sample of young, urban men who have sex with men. *AIDS and Behavior*, 17(5):1819-28. doi: 10.1007/s10461-013-0468-2.

#### IN PREPARATION PUBLICATIONS

1. **Olivieri-Mui, B.**, Shi, S., McCarthy, E., Montano, M., Wilson, I., Oh, G., Manjourides, J., Kim, D. H. (**Submitted**). Expected Date of Submission: December 28, 2021. Date Submitted or Resubmitted: December 2021, 2021. In Paul A. Volberding; William A. Blattner (Ed.), *Categorizing comorbid risk for people living with HIV: a latent profile analysis*. Philadelphia, PA: JAIDS.
2. **Olivieri-Mui, B.**, Shi, S., Oh, G., McCarthy, E., Wilson, I., Montano, M., Kim, D. H. (In Preparation; Not Yet Submitted). Expected Date of Submission: June 15, 2022. Clinical and utilization outcomes of matched people with and without HIV aged 65+.
3. **Olivieri-Mui, B.**, Shi, S., Oh, G., McCarthy, E., Wilson, I., Montano, M., Kim, D. H. (In Preparation; Not Yet Submitted). Expected Date of Submission: March 1, 2022. AIDS related or non-AIDS related outcomes: where should we look to optimize clinical care for an aging HIV population?.
4. **Olivieri-Mui, B.**, Shi, S., Oh, G., McCarthy, E., Wilson, I., Montano, M., Kim, D. H. (In Preparation; Not Yet Submitted). Expected Date of Submission: February 1, 2022. Non-adherence to antiretroviral therapy among older people with HIV and geriatric conditions. *AIDS Patient Care and STDs*.

#### BOOK CHAPTERS

**Olivieri, B.**, Rai, A.J. (2010). A Primer on Clinical Applications and Assays Using Urine: Focus on Analysis of Plasma Cell Dyscrasias Using Automated Electrophoresis and Immunofixation. In A. J. Rai (Ed.), *Urinary Proteome: Methods and Protocols*, 641: 13-26. Totowa, NJ: Humana Press Inc.

#### ABSTRACTS AND POSTERS

- i. Stephanie Denise Sison, Gahee Oh, Sandra Shi, **Brianne Olivieri-Mui**, Ellen McCarthy, Dae Kim, Frailty and Dementia: Differences in Health Care Utilization and Costs, *Innovation in Aging*, Volume 5, Issue Supplement\_1, 2021, Page 821, <https://doi.org/10.1093/geroni/igab046.2991>
- ii. **Olivieri-Mui B**, Shi S, Oh G, McCarthy E, Wilson I, Montano M, Kim DH. Clinical and Utilization Outcomes of Matched People with and without HIV Aged 65+. GSA Annual Scientific Meeting 2021. October 10-13 2021
- iii. **Olivieri-Mui B**, Shi S, Oh G, McCarthy E, Wilson I, Montano M, Kim DH. Adherence to antiretroviral therapy among older people living with HIV and geriatric conditions. 12<sup>th</sup> International Workshop on HIV & Aging. 2021. 23-24 September 2021
- iv. **Olivieri-Mui B**, McCarthy E, Shi S, Montano M, Wilson I, Kim DH. Categorizing risk for older persons living with HIV: A latent class analysis of comorbidities. The Harvard University Center for AIDS Research (HU CFAR) travel awards competition to attend the 11th International Workshop on HIV & Aging. September 30 - October 2, 2020. **Winning abstract for CFAR competition and conference Young Investigator Award.**
- v. **Olivieri-Mui B**, Shi S, McCarthy E, Kim D. Sex difference in self-reported sexual functioning among frail older adults. Submitted for Gerontological Society of America Annual Meeting, November 4-7 2020.
- vi. **Olivieri-Mui B**, Shi S, McCarthy E, Kim DH. Identifying Clinically Important Subgroups within Frailty. Poster accepted at 2020 American Geriatric Society Annual Meeting, Long Beach, CA. Meeting cancelled.
- vii. Shi, S. M., **Olivieri-Mui, B.**, McCarthy, E. P., & Kim, D. H. Varying Changes in Geriatric Clinical Domains by Baseline Frailty. Poster accepted at 2020 American Geriatric Society Annual Meeting, Long Beach, CA. Meeting cancelled.
- viii. Shi, S. M., **Olivieri-Mui, B.**, McCarthy, E. P., & Kim, D. H. One-Year Changes in Frailty and Mortality. Poster accepted at 2020 American Geriatric Society Annual Meeting, Long Beach, CA. Meeting cancelled.
- ix. Simonds, Margaret, **Olivieri-Mui, B**, McGuire, J. (2019) Analysis of United in Stride visually impaired runners and guides. Poster presented at the 2019 RISE, Northeastern University, Boston, MA.

- x. Briesacher, B, **Olivieri-Mui, B**, Chhabra, B, Koethe, B. (2019). Adequacy of Prescription Drug Coverage in Long-term Care. Poster presented at the 2019 Academy Health Annual Research Meeting, Washington D.C. June 2-4, 2019
- xi. **Olivieri-Mui, B**, McGuire, J, Griffith, J, Cahill, S, Briesacher, B. (2018). People living with HIV/AIDS in U.S. Nursing Homes in the 4th Decade of the Epidemic. Poster presented at the 2018 National Ryan White Conference on HIV Care & Treatment, Washington D.C.
- xii. **Olivieri-Mui, B**, McGuire, J, Griffith, J, Cahill, S, Briesacher, B. (2018) Characterization of People Living with HIV in US Nursing Homes. Poster presented at the 2018 Health Aging Summit, American College of Preventive Medicine, Washington D.C.
- xiii. **Olivieri-Mui, B**, McGuire, J, Griffith, J, Cahill, S, Briesacher, B. (2018) People Living with HIV/AIDS in U.S. Nursing Homes: A Summary. Poster presented at the 2018 Research, Innovation and Scholarship Expo (RISE), Northeastern University, Boston, MA.
- xiv. Kacin, A, **Olivieri-Mui, B**, McGuire, J. (2018) Perceptions of HIV and Pre-Exposure Prophylaxis (PrEP) Among Northeastern University Students. Poster presented at the 2018 RISE, Northeastern University, Boston, MA.
- xv. **Olivieri-Mui, B**, Devlin, J, Ochoa, A, Schenck, D, Briesacher, B. (2016) Therapeutic Substitute for Antipsychotics in Older Adults with Dementia in Long Term Care: Results from an Expert Panel Survey and Literature Review. Academy Health Annual Research Meeting. June 26-28, 2016

## PRESENTATIONS/TALKS

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- 2021 January Harvard Medical School, Men’s Health Research Group, Invited by Monty Montano, Utility of Latent Profile Analysis for Classifying Comorbid Risk for Older People with HIV
- 2020 May Brown University, Ira Wilson’s monthly research meeting, Research in Progress: Geriatric conditions, ART adherence, and clinical outcomes among Medicare eligible PLWH: Preliminary results
- 2020 February Broadway House, HIV specialty nursing home, Newark, NJ Discussion on HIV care quality in nursing homes
- 2018 December Consumer Committee of the Boston EMA Ryan White Planning Council Title: PLWH in Nursing Homes and Assisted-Living Arrangements
- 2018 September New England Association on HIV Over 50 and New England AIDS Education and Training Center Title: People living with HIV in Nursing Homes: Then and Now
- 2018 March Massachusetts HIV/AIDS State Wide Consumer Advisory Board Title: Overview of Emory University conference: “HIV & Aging: From Mitochondria to Metropolis”

## PRESS

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- 2019 December Brown, Danielle. Nursing home residents with HIV often lacking access to necessary — covered — meds: study. McKnights.com. Available at: <https://www.mcknights.com/news/nursing-home-residents-with-hiv-often-lacking-access-to-necessary-covered-meds-study/>
  - 2017 December Kaltwasser, Jared. Analysis: Federal HIV/AIDS Goal Achievable with Just 25% PrEP Uptake. MDMag.com. Available at: <http://www.mdmag.com/medical-news/analysis-federal-hivaids-goal-achievable-with-just-25-prep-uptake>
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## TEACHING EXPERIENCE

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INSTRUCTOR OF RECORD

NORTHEASTERN UNIVERSITY

UNDERGRADUATE

PHTH 4202 Epidemiology in Medicine and Public Health  
PHTH 2210 Foundations of Biostatistics,

2022-Present  
2018-2019

TEACHING ASSISTANT

HARVARD SCHOOL OF PUBLIC HEALTH

GRADUATE

EPI 526 Analysis of Publicly Available Databases for  
Epidemiologic Health Services Research,

F2020

NORTHEASTERN UNIVERSITY

GRADUATE

PHSC6214 Experimental Design/Biostatistics,  
PHMD3450 Research Methods and Biostats,  
PHSC6214 Experimental Design and Biometrics,  
PHMD5223 Evidence-based medicine,

Sp2017, Sp2018  
Sp2016  
F2015  
F2016, F2017

UNDERGRADUATE

PHTH2210 Foundations of Biostatistics, (Lab instructor)  
PHTH4515 Critical Issues in Health Policy

F2016  
F2017

GUEST LECTURE TOPICS, DURATION, AND FREQUENCY

Meta-analysis  
ANOVA  
Survival Analysis  
Introduction to the Affordable Care Act  
Emerging Infectious Diseases  
HIV and Applied Research

45 minutes x 4  
1 hour x 2  
1 hour x 2  
1 hour 40 mins  
1 hour 40 mins x 3  
1 hour 15 mins x 3

MENTORSHIP

2021-Present

Northeastern University, Research mentor,  
Student: *Emma Kohrt*, unpaid student researcher working on Aging and HIV in Uganda

2017-2019

**Tutor**, Biostatistics

2017-2019

**Advisor**, Northeastern Undergraduate Health Sciences Research Coalition

STUDENT RESEARCH AND ADVISING

2021-Present

**Advisor**, Beth Israel Deaconess Medical Center, Geriatrics Fellow:  
*Chelsea Wong*, MD, "Calculating Frailty in the All of Us database"

2020-2021

**Advisor**, Harvard School of Public Health project:  
*Carrie Chan*, MD, "Associations between State-Level High School HIV Education Policies and Adolescent HIV Risk Behaviors"

2020-2021

**Advisor**, Massachusetts College of Pharmacy and Health Sciences Practicum:  
*Rena Reyes*, "The convergence of HIV criminalization and nursing homes"

2019-2020

**Advisor**, Northeastern Undergraduate Undergraduate Capstone project:  
*Priyal Gupta*, "Accessibility and mental health outcomes related to hearing aids"

2019

**Advisor**, Northeastern Undergraduate Undergraduate Capstone project:  
*Margaret Simonds*, "Analysis of United in Stride visually impaired runners and guides"

2017-2018

**Advisor**, Northeastern Undergraduate Undergraduate Capstone project:  
*Alexa Kacin*, "Perceptions of HIV and PrEP among Northeastern Students"

LEADERSHIP AND SERVICE

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2019-Present	Massachusetts Department of Public Health Ending the HIV Epidemic: Behavioral Health Advisory Group member
2019-Present	Massachusetts Department of Public Health Ending the HIV Epidemic: Gay Men’s Advisory Group member
Ad Hoc	<b>Peer reviewer:</b> Journal of the Association of Nurses in AIDS Care, Aging and Mental Health, Journal of Acquired Immune Deficiency Syndromes, BMC Geriatrics, BMC Health Services Research
2018	Planning committee member, “Aging with HIV Wellness day 2018” National Minority AIDS Council/New England AIDS Education and Training Center

## MEMBERSHIPS AND COUNCILS

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2019-Present	The Gerontological Society of America
2017-2018	Guest, Mass. Dept. of Public Health HIV/AIDS Consumer Advisory Board
2015-Present	Academy Health
2010, 2017-Present	American Public Health Association

## HONORS AND AWARDS

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2020	Young Investigator Award, International Conference on HIV & Aging 2020 (virtual)
2020	Harvard Center for AIDS Research winning abstract for travel funds
2012	Certificate of Academic Excellence, CUNY Hunter College School of Public Health
2001-2005	John Dewey Honors Program, UVM
2001-2005	UVM Scholarship, UVM
2001-2005	Henderson Grant, UVM
2001-2005	Presidential Scholarship, UVM

## TECHNICAL SKILLS (EXAMPLES)

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Linear regression	ANOVA	Logistic regression
Survival analysis	Bootstrapping	Missing data methods
Multi-level models	Interrupted time series	LOESS
SAS	Stata	Excel
SQL (working knowledge)	Unix (working knowledge)	Various laboratory automated analyzers, electrophoresis, and imaging techniques

## RESEARCH AND TEACHING INTEREST

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HIV	Aging	Intersection of multiple identities on health outcomes
LGBT health	Health equity research	Evidence based policy and practice
Epidemiology		Translating research into care quality

## OTHER PROFESSIONAL EXPERIENCE

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2008-2012	New York, NY	<b>The Rogosin Institute</b> Clinical DNA Technologist Clinical Chemistry Technologist
2005-2007	New York, NY	<b>Memorial Sloan Kettering Cancer Center</b> Clinical Chemistry Technologist
2001-2005	Burlington, VT	<b>University of Vermont</b> Neuroscience Laboratory Research Assistant