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(Last Revised 1/2/20)

**EDUCATION**

2011 PhD  **Johns Hopkins Bloomberg School of Public Health**, Baltimore, MD

Department of Health, Behavior and Society

Dissertation: *Men who sell sex to men in China: identity, work, and HIV*

2002 BA  **Princeton University**, Princeton, NJ

Departments of Anthropology (major) and East Asian Studies (minor)

*magna cum laude*

**PROFESSIONAL EXPERIENCE**

2019-present **Associate Professor**,Department of Health Behavior, Gillings School of Global Public Health, University of North Carolina at Chapel Hill

2013-2019 **Assistant Professor**, Department of Health Behavior, Gillings School of Global Public Health, University of North Carolina at Chapel Hill

2011-2013 **Postdoctoral Research Fellow**, Institute for Global Health and Infectious Diseases, University of North Carolina at Chapel Hill

2010-2012 **Research Consultant**, completed systematic literature reviews and data analysis tasks supporting the development of evidence-based guidelines and recommendations for HIV prevention and care: International Association of Physicians for AIDS Care (2011 – 12); World Health Organization (2010 – 11)

**HONORS**

2015 Junior Investigator Developmental Awardee, UNC Center for AIDS Research (CFAR)

2015 Triangle Global Health Consortium Emerging Leader Award, Finalist

2013 Early career investigator mentee, Developmental Center for AIDS Research, Social and Behavioral Sciences Research Network

2012 Open Access Award from the Scholarly Communications Coordinating Committee, University of North Carolina at Chapel Hill’s Libraries

2012 Postdoctoral Award for Research Excellence, University of North Carolina at Chapel Hill

2009 Ruth L. Kirschstein National Research Service Award (NRSA), National Institutes of Health

2008 Fulbright Institute for International Education, China Scholar, U.S. Department of State

2007 Fogarty International Center Research Scholar, China, National Institutes of Health

2007 Fulbright Hays Doctoral Dissertation Award, China, U.S. Department of Education (declined in order to accept NIH scholarship)

2007 David L. Boren Fellowship, China, National Security Education Program, U.S. Department of State (declined in order to accept NIH scholarship)

2006 Carl E. Taylor Award on Bioethics and International Health, Johns Hopkins Bloomberg School of Public Health

2006 Doctoral Distinguished Research Award, Johns Hopkins Bloomberg School of Public Health

2002 Senior Thesis Prize in Anthropology, Princeton University

**PEER-REVIEWED PUBLICATIONS**

\* Mentored student or trainee

β Co-first authorship

(72) Hightow-Weidman LB, LeGrand S, Egger JR, **Muessig KE**, Platt A. Predictors of Condomless Anal Intercourse in Young HIV Positive Men Who Have Sex with Men with Detectable Viral Loads. (In Press, Dec 2019). *Journal of Adolescent Health*.

(71) Li CY, Yuan X, Hao FS, Tang WM, Hall BJ, **Muessig KE**, Wei CY, Bao HY, Wei SF, Zhang DP, Mi GD, Fei Y, Tucker JD. An MSM (men who have sex with men)-friendly Doctor Finder Hackathon in Guangzhou, China: Development of an mHealth intervention to enhance healthcare utilization. (In Press, Dec 2019). *JMIR mHealth and uHealth*.

(70) Kowitt SD,\* Aiello AE, Callahan LF, Fisher EB, Gottfredson NC, Jordan JM, **Muessig KE**. Associations among neighborhood poverty, perceived neighborhood environment, and depressed mood are mediated by physical activity, perceived individual control, and loneliness. (In Press, Dec 2019). *Health & Place*.

(69) Rosengren AL, Menza TW, LeGrand S, **Muessig KE**, Bauermeister JA, Hightow-Weidman LB. Stigma and mobile app use among young black men who have sex with men. *AIDS Education and Prevention*. 2019; 31(6):523-537. PMID: 31815533. NIHMSID: 1064576.

(68) Kowitt SD,\* Aiello AE, Callahan LF, Fisher EB, Gottfredson NC, Jordan JM, **Muessig KE**. How are neighborhood characteristics associated with mental and physical functioning among older adults with radiographic knee osteoarthritis? (In Press, Dec 2019). *Arthritis Care & Research*.

(67) Bauermeister JA, **Muessig KE**, LeGrand S, Flores DD, Choi SK, Dong W, Sallabank G, Hightow-Weidman LB. HIV and sexuality stigma reduction through engagement in online forums: Results from the HealthMpowerment intervention. *AIDS and Behavior*, 2019; 23(3):742-752. PMID: 30121727. PMCID: PMC6379154.

(66) Choi SK,\* LeGrand S, Dong W,\* **Muessig KE**, Hightow-Weidman L. Condom use intentions mediate the relationships between psychosocial constructs and HIV sexual risk behavior in young Black men who have sex with men. *AIDS Care,* 2019; 31(1):53-60. PMID: 29950106. PMCID: PMC6301140.

(65) **Muessig KE**, Knudtson KA, Soni K, Larsen MA, Traum D, Dong W, Conserve D, Leuski A, Artstein R, Hightow-Weidman LB. “I didn’t tell you sooner because I didn’t know how to handle it myself.” Developing a virtual reality program to support HIV-status disclosure decisions. *Digital Culture & Education,* 2018; 10:22-48. PMID: 30123342. PMCID: PMC6097708.

(64) Barry MC,\* Threats M,\* Blackburn N,\* LeGrand S, Dong W,\* Pulley D,\* Sallabank G, Harper GW, Hightow-Weidman LB, Bauermeister JA, **Muessig KE**. “Stay strong! Keep ya head up! Move on! It gets better!!!!”: Resilience processes in the healthMpowerment online intervention of young Black gay, bisexual and other men who have sex with men. *AIDS Care,* 2018; 30(SUP5): S27–S38. PMID: 30632775. PMCID: PMC6430674

(63) Bauermeister JA, **Muessig KE**, Flores DD, LeGrand S, Choi SK, Dong W, Harper GW, Hightow-Weidman LB. Stigma diminishes the protective effect of social support on psychological distress among young Black men who have sex with men. *AIDS Education and Prevention,* 2018; 30(5):406-418. PMID: 30332312.

(62) LeGrand S, Knudtson K, Benkeser D, **Muessig K**, Mcgee A, Sullivan PS, Hightow-Weidman L. Testing the efficacy of a social networking, gamification app to improve pre-exposure prophylaxis adherence (P3: Prepared, Protected, emPowered): Protocol for a randomized controlled trial. *JMIR Research Protocols,* 2018 Dec 18;7(12):e10448. doi: 10.2196/10448, PMID: 30563818. PMCID: PMC6315253.

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(60) Conserve D, **Muessig K**, Kilonzo N, Maman S, Kajula L. Mate Yako Afya Yako: Formative research to develop the peer-based HIV Self-Testing Education and Promotion (STEP) intervention for networks of men in Tanzania. *PLoS One*, 2018 Aug 27; 13(8):e0202521. doi: 10.1371/journal.pone.0202521. PMID: 30148846. PMCID: PMC6110473.

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(42) Legrand S, **Muessig KE**,McNulty T, Soni K, Knudtson K, Lemann A, Nwoko N, Hightow-Weidman LB. Epic Allies: Development of a gaming app to improve antiretroviral therapy adherence among young HIV-positive men who have sex with men. *JMIR Serious Games,* 2016; 4(1):e6. doi: 10.2196/games.5687. PMID: 27178752. PMCID: PMC4884268.

(41) **Muessig KE**, Rosen DL, Farel CE, White BL, Filene EJ, Wohl DA. “Inside these fences is our own little world”: Prison-based HIV testing and HIV-related stigma among incarcerated men and women. *AIDS Education and Prevention*, 2016; 28(2):103–16. PMID: 27459162. PMCID: PMC4965171.

(40) Su S, Chow EP, **Muessig KE**, Yuan L, Tucker JD, Zhang X, Ren J, Fairley CK, Jing J, Zhang L. Sustained high prevalence of viral hepatitis and sexually transmissible infections among female sex workers in China: A systematic review and meta-analysis. *BMC Infectious Diseases*, 2016; 16(1):2. PMID: 26732281. PMCID: PMC4702370.

(39) Mangone ER,\* Lebrun V, **Muessig KE**.Mobile phone apps for the prevention of unintended pregnancy: A systematic review and content analysis. *Journal of Medical Informatics Research mHealth and uHealth*, 2016; 4(1):e6. PMID:26787311. PMCID: PMC4738182.

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(37) **Muessig KE**, Panter AT, Mouw MS, Amola K, Stein KE, Murphy JS, Maiese EM, Wohl DA. Medication-taking practices of patients on antiretroviral HIV therapy: Control, power, and intentionality. *AIDS Patient Care and STDs*, 2015; 29(11):606-16. PMID: 26505969. PMCID: PMC4638213.

(36) Hightow-Weidman L, **Muessig KE**, Bauermeister J, Zhang C, LeGrand S. Youth, Technology and HIV: Recent advances and future directions. *Current HIV/AIDS Reports*, 2015; 12(4):500-515. PMID: 26385582. PMCID: PMC4643403.

*This article was featured in the November 2015 edition of the AIDSFree Prevention Update, a monthly newsletter summarizing seminal articles across HIV prevention topics with a subscribership of approximately 5000 people world-wide.*

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(34) Chow EP, Tung K, Tucker JD, **Muessig KE**, Su S, Zhang X, Jing J, Zhang L. Behavioral interventions improve condom use and HIV testing uptake among female sex workers in China: A systematic review and meta-analysis. *AIDS Patient Care and STDs*, 2015; 29(8):454-60. PMID: 26217931. PMCID: Not applicable.

(33) **Muessig KE**, Bien CH, Wei C, Lo EJ, Yang M, Tucker JD, Yang L, Meng G, Hightow-Weidman LB. A mixed-methods study on the acceptability of using eHealth for HIV prevention and sexual health care among men who have sex with men in China. *Journal of Medical Internet Research*, 2015; 17(4):e100. PMID: 25900881. PMCID: PMC4420841.

(32) Bien CH,\*β **Muessig KE**,β Lee R,\* Lo EJ,\* Yang LG, Yang B, Peeling RW, Tucker JD. HIV and syphilis testing preferences among men who have sex with men in South China: A qualitative analysis to inform sexual health services. *PLoS One,* 2015; 10(4):e0124161. PMID: 25875336. PMCID: PMC4395264.

(31) Chow EP,β **Muessig KE**,β Yuan L, Wang Y, Zhang X, Zhao R, Sun P, Sun X, Tucker JD, Jing J, Zhang L. Risk behaviours among female sex workers in China: A systematic review and data synthesis. *PLoS One*, 2015; 10(3):e0120595. PMID:25815481. PMCID: PMC4376708.

(30) Huang Y, **Muessig KE**, Zhang N, Maman S. Unpacking the “structural” in a structural approach for HIV prevention among female sex workers: A case study from China. *Global Public Health*, 2015; 10(7):852-66. PMID: 25742611. PMCID: PMC4509851.

(29) **Muessig KE**,Nekkanti M,\* Bauermeister J, Bull S, Hightow-Weidman LB. A systematic review of recent smartphone, Internet and Web 2.0 interventions to address the HIV continuum of care. *Current HIV/AIDS Reports*, 2015; 12(1):173-90. PMID: 25626718. PMCID: PMC4370788.

(28) Hightow-Weidman LB, **Muessig KE**, Pike EC, LeGrand S, Baltierra NB, Rucker AJ, Wilson P. HealthMpowerment.org: Building community though a mobile-optimized, online health promotion intervention. *Health Education and Behavior,* 2015; 42(4):493-9. PMID: 25588932. PMCID: PMC4501897.

(27) Bien CH,\* Best JM,\* **Muessig KE**, Wei C, Han L,\* Tucker JD. Gay apps for seeking sex partners in China: Implications for MSM sexual health. *AIDS and Behavior,* 2015; 19(6):941-6. PMID: 25572834. PMCID: PMC4475493.

(26) Tucker JD,β **Muessig KE**,β Cui R, Bien CH, Lo EJ, Lee R, Wang K, Han L, Liu FY, Yang LG, Yang B, Larson H, Peeling RW. Organizational characteristics of HIV/syphilis testing services for men who have sex with men in South China: A social entrepreneurship analysis and implications for creating sustainable service models. *BMC Infectious Diseases*, 2014; 14(1):601. PMID: 25422065. PMCID: PMC4247875.

(25) **Muessig KE**,Cohen MS. Advances in HIV prevention for serodiscordant couples. *Current HIV/AIDS Reports,* 2014; 11(4):434-46. PMID: 25145645. PMCID: PMC4267973.

(24) **Muessig KE**, Baltierra NB, Pike EC, LeGrand S, Hightow-Weidman LB. Achieving HIV risk reduction through healthMpowerment.org, a user-driven eHealth intervention for young Black men who have sex with men and transgender women who have sex with men. *Digital Culture & Education*, 2014; 6(3):164-182. PMID: 25593616. PMCID: PMC4292870.

(23) Han L,\* Bien CH,\* Wei C, **Muessig KE**, Yang M, Liu F, Yang L, Meng G, Emch ME, Tucker JD. HIV self-testing among online MSM in China: Implications for expanding HIV testing among key populations. *Journal of Acquired Immune Deficiency Syndromes,* 2014; 67(2):216-21. PMID: 24991972. PMCID: PMC4162828.

(22) Wei C, **Muessig KE**, Bien C, Yang L, Han L, Yang M, Tucker JD. Strategies for promoting HIV testing uptake: Willingness to receive couple-based and collective testing among a cross-sectional online sample of men who have sex with men in China. *Sexually Transmitted Infections*, 2014; 90(6):469-74. PMID: 24760266. PMCID: PMC4151526.

(21) LeGrand S, **Muessig KE**, Pike EC, Hightow-Weidman LB. If you build it will they come? Addressing social isolation within a technology-based HIV intervention for young Black men who have sex with men. *AIDS Care*, 2014; 26(9):1194-200. PMID: 24617609. PMCID: PMC4065205.

(20) **Muessig KE**, McLaughlin MM, Nie JM, Cai W, Zheng H, Yang L, Tucker JD. Suboptimal antiretroviral therapy adherence among HIV-infected adults in Guangzhou, China. *AIDS Care*, 2014; 26(8):988-95. PMID: 24666239. PMCID: PMC4024070.

(19) Henderson G, Maman S, Huang Y, **Muessig K**, Pan S. Social contexts of heterosexual transmission of HIV/STI in Liuzhou City, China. *AIDS and Behavior*, 2014; 18(S2):S111-7. PMID: 24337698. PMCID: PMC4138215.

(18) Zhang YC,\* Brown J, **Muessig KE**,Feng XX, He WZ. Sexual health knowledge and health practices of female sex workers in Liuzhou, China, differ by size of venue. *AIDS and Behavior,* 2014; 18(S2):S162-70. PMID: 23612941. PMCID: PMC3883793.

(17) Wang W,\* **Muessig KE**, Li M, Zhang YX. Networking activities and perceptions of HIV risk among male migrant market vendors in China. *AIDS and Behavior*, 2014; 18(S2):S142-151. PMID: 23572155. PMCID: PMC3749260.

(16) **Muessig KE**, Smith MK, Maman S, Huang Y, Chen XS. Advancing the prevention agenda for HIV and other sexually transmitted infections in south China: Social science research to inform effective public health interventions. *AIDS and Behavior*, 2014; 18(S2):S222-231. PMID: 24443101. PMCID: PMC3982310.

(15) Lee R,\* Cui RR,\* **Muessig KE**,Thirumurthy H, Tucker JD. Incentivizing HIV/STI testing: A systematic review of the literature. *AIDS and Behavior*, 2014; 18(5):905-12. PMID: 24068389. PMCID: PMC3966986.

(14) Farel CE, Parker SD, **Muessig KE**, Grodensky CA, Jones C, Golin CE, Fogel CI, Wohl DA. Sexuality, sexual practices, and HIV risk among incarcerated African-American women in North Carolina. *Women’s Health Issues*, 2013; 23(6):e357-64. PMID: 24183410. PMCID: PMC3891845.

(13) Cohen MS, Smith MK, **Muessig KE**, Hallett TB, Powers KA, Kashuba AD. Antiretroviral treatment of HIV-1 prevents transmission of HIV-1: Where do we go from here? *Lancet*, 2013; 382(9903):1515-24. PMID: 24152938. PMCID: PMC3880570.

(12) Cui RR,\* Lee R,\* Thirumurthy H, **Muessig KE**, Tucker JD. Microenterprise development interventions for sexual risk reduction: A systematic review. *AIDS and Behavior*, 2013; 17(9):2864-77. PMID: 23963497. PMCID: PMC3877769.

(11) **Muessig KE**, Pike E, Fowler B, LeGrand S, Parsons J, Wohl D, Bull S, Wilson P, Hightow-Weidman LB. Putting prevention in their pockets: Developing mobile phone based HIV interventions for Black men who have sex with men. *AIDS Patient Care and STDs*, 2013; 27(4):211-22. PMID: 23565925. PMCID: PMC3624691.

(10) Clum GA, Czaplicki L, Andrinopoulos K, **Muessig K**, Hamvas L, Ellen JM, and the Adolescent Medicine Trials Network for HIV/AIDS Interventions. Strategies and outcomes of HIV status disclosure in HIV-positive young women with abuse histories. *AIDS Patient Care and STDs,* 2013; 27(3):191-200. PMID: 23596649. PMCID: PMC3595953.

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(4) Baral S, Beyrer C, **Muessig K**, Poteat T, Wirtz AL, Decker MR, Sherman SG, Kerrigan D. Burden of HIV among female sex workers in low-income and middle-income countries: A systematic review and meta-analysis. *Lancet Infectious Diseases*, 2012; 12(7):538-49. PMID: 22424777. PMCID: Not applicable.

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(2) Regenstein M, Mead H, **Muessig KE**, Huang J. Challenges in language services: Identifying and responding to patients' needs. *Journal of Immigrant and Minority Health*, 2009; 11(6):476-81. PMID: 18536990. PMCID: Not applicable.

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**BOOK CHAPTERS**

(2) **Muessig KE**, Baltierra NB, Pike EC, LeGrand S, Hightow-Weidman LB (2015). Achieving HIV risk reduction through healthMpowerment.org, a user-driven eHealth intervention for young Black men who have sex with men and transgender women who have sex with men. In: CS Walsh (Ed.), *Transforming HIV Prevention & Care For Marginalised Populations* (pp. 211-230)*.* Digital Culture & Education online Open Access Book. Available online at: <http://www.digitalcultureandeducation.com/transforming-hiv-prevention-care-for-marginalised-populations/>. [Note: this Chapter was first published as a peer-reviewed article in 2014.]

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**OTHER FORMS OF SCHOLARLY PRODUCTIVITY**

(1) **Muessig K**, Weir S, Lancaster K, Herce M, Miller WM, Harris MS, Zalla L. Programmatic mapping readiness assessment for use with key populations. Protocol guide and field manual produced by FHI360 under the USAID-funded LINKAGES initiative for improving access to HIV services among key populations. April 2017. Available online at: <https://www.fhi360.org/resource/programmatic-mapping-readiness-assessment-use-key-populations>

**INVITED EDITORIALS**

(4) Hightow-Weidman LB, **Muessig KE**. New media challenges and opportunities. *Sexually Transmitted Infectious*, 2017; 93(5):309-310. PMID: 27888207.

(3) Hightow-Weidman L, **Muessig KE**. Using virtual spaces to engage HIV-positive men who have sex with men online: Considerations for future research and interventions. *Sexually Transmitted Diseases*, 2014;41(12):756-8. PMID: 25581814. PMCID: PMC4501851.

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**INVITED PRESENTATIONS**

**International and national**

(16) “eHealth-enabled peer-support: core components for MSM in China.” 2017 International Symposium on STD Clinical Services Improvement for High-risk Populations. September 26-27, 2017, Shenzhen, China.

(15) “Qualitative methods for HIV/STD research.” 2017 South China-UNC STIs Capacity Building Session. September 26, 2017, Guangzhou, China.

(14) “Social innovation and sustaining programs with limited resources.” 2017 UNC-South China International Summit for STD Prevention and Control & WHO Expert Consultation on Advancing Implementation Research on Syphilis, HIV and Hepatitis in Asia. September 23-25, 2017, Guangzhou, China.

(13) “Design and evaluation of technology-based interventions across the HIV care continuum.” Chengdu Media Group-Sichuan Elite Physician Company. August 12, 2016, Chengdu, China.

(12) “Use of the web, mobile apps and social media for HIV care and prevention among MSM in the U.S. and China.” Sichuan Provincial People's Hospital. August 11, 2016, Chengdu, China.

(11) “Use of the web, mobile apps and social media for HIV care and prevention among MSM in the U.S. and China.” University of California San Francisco, Center for AIDS Prevention Studies eHealth Workgroup. October 13, 2015, Delivered via video conferenced webinar.

(10) “Use of the web, mobile apps and social media for care and prevention in the US and China” (#TUWS0503). International AIDS Society Conference (IAS). July 19-23, 2015, Vancouver, Canada.

(9) “Use of a social media based intervention to address stigma related to sexual orientation, race, and HIV among MSM.” 18th IUSTI Asia-Pacific Conference. November 11-14, 2014, Bangkok, Thailand.

(8) “Research ethics in HIV/STD research.” Third Annual UNC-South China STI Research Training Course. July 13-19, 2014, Guangzhou, China.

(7) “Qualitative methods for HIV/STD research.” Third Annual UNC-South China STI Research Training Course. July 13-19, 2014, Guangzhou, China.

(6) “2014 Triangle East Asia Colloquium on Sex Work and Trafficking in East Asia.” Hosted by North Carolina State University. February 8, 2014. Raleigh, North Carolina, USA.

(5) “Social Entrepreneurship for Sexual Health, formative research in barriers to HIV testing and acceptability of eHealth approaches.” Social Entrepreneurship for Sexual Health (SESH) Technical Meeting. July 4, 2013, Hong Kong, China.

(4) “Qualitative data collection training workshop for HIV/STD research.” Sun Yat-sen University and UNC School of Medicine. June 22, 2013, Guangzhou, China.

(3) “The use of e-technology to promote sexual health among MSM.” Social Entrepreneurship for Sexual Health (SESH) Technical Meeting. October 31, 2012, Hong Kong, China.

(2) “Conducting qualitative research for HIV/STDs: An overview of methods.” First Annual UNC-South China STI Research Training Course. May 27-29, 2012, Guangzhou, China.

(1) “What is the current evidence for Treatment as Prevention among men who have sex with men (MSM)?” WHO-NIH Informal Consultation, Antiretroviral Treatment as HIV Prevention: Implementation Research in Selected Countries in Asia. March 26-28, 2012, Seam Reap, Cambodia.

**University of North Carolina at Chapel Hill**

(10) “mHealth interventions for men who have sex with men to address HIV stigma and social isolation.” University of North Carolina at Chapel Hill AIDS Training and Education Center, 19th Annual World AIDS Day Symposium. December 1, 2017, Chapel Hill, North Carolina.

(9) “Stigma experiences among young Black men who have sex with men in North Carolina.” UNC LGBTQ Center Graduate Speaker Series. April 13, 2016, Chapel Hill, North Carolina.

(8) “Invisible citizens in the new urban China: ‘If not for the money’: Straight men who sell sex to men.” Symposium Title: Who Decides in China’s Rapid Urbanization? An Interdisciplinary Inquiry into the New Chinese City. Sponsored by the Carolina Asia Center, UNC-Chapel Hill Program on Chinese Cities and a grant from the Chiang Ching-Kuo Foundation. September 25, 2015, Chapel Hill, North Carolina.

(7) “eHealth adherence tools in HIV/AIDS in China and US”. Presented at the “Integrating eHealth into Peer Support” meeting hosted by Peers for Progress and the UNC Center for Diabetes Translation Research. April 27-28, 2015, Chapel Hill, North Carolina.

(6) “Qualitative data analysis training workshop.” UNC Office of Undergraduate Education. April 9, 2015, Chapel Hill, North Carolina.

(5) “Four Frees, One Care, and the HIV cascade in China.” Carolina Asia Center, China Initiative. February 3, 2014, Chapel Hill, North Carolina.

(4) “From PhD to postdoc to professional: Building a research portfolio and mentorship team for a career in public health research.” Gillings School of Public Health, Department of Health Behavior, Doctoral Student Group. October 29, 2013, Chapel Hill, North Carolina.

(3) “Conducting field research among male commercial sex workers in China.” Gillings School of Public Health, Department of Health Behavior, Global Health Roundtable. October 10, 2013, Chapel Hill, North Carolina.

(2) “Mixed methods research to inform an HIV testing and linkage to care intervention among men who have sex with men in China.” UNC Division of Infectious Diseases, Friday Infectious Disease Conference. May 10, 2013, Chapel Hill, North Carolina.

(1) “New diagnostic, financial, and technology-based approaches to increase HIV testing and linkage to care among men who have sex with men in China.” UNC Center for AIDS Research (CFAR) World AIDS Day Symposium. November 30, 2012, Chapel Hill, North Carolina.

**SELECTED REFEREED ORAL PRESENTATIONS AND ABSTRACTS**

\* Mentored student/trainee

(60) **Muessig KE**, Giovenco D, Horvitz C, Biello K, Liu A, Horvath K, Golinkoff J, Hightow-Weidman LB. Developing engaging technology-based interventions to optimize HIV prevention and care among youth: formative work from four Adolescent Trials Network iTech studies. Abstract 5817. National HIV Prevention Conference, March 18-21, 2019, Atlanta, Georgia, USA.

(59) Hightow-Weidman LB, LeGrand S, Golinkoff J, **Muessig K**, Horvath K, Bauermeister J. Prioritization of harmonization of self-reported and intervention recorded measures in digital health research. Abstract 5499. National HIV Prevention Conference, March 18-21, 2019, Atlanta, Georgia, USA.

(58) Kowitt SD,\* Aiello AE, Callahan LF, Fisher EB, Jordan JM, **Muessig KE**, Gottfredson NC. Associations among neighborhood characteristic and depressed mood are mediated by individual-level characteristics, especially loneliness. Society of Behavioral Medicine, March 6-9, 2019, Washington D.C., USA.

(57) Kowitt SD,\* Aiello AE, Callahan LF, Fisher EB, Jordan JM, **Muessig KE**, Gottfredson NC. How are neighborhoods associated with key quality of life indicators among individuals with radiographic knee osteoarthritis? Society of Behavioral Medicine, March 6-9, 2019, Washington D.C., USA.

(56) Villa-Torres L,\* **Muessig KE**, Eng E, Chua J, Viruell-Fuentes E, Barrington C. Mental and physical health impacts of living undocumented among Mexican men that have migrated to the US. Abstract #2037.1. APHA 2018, November 10-14, 2018, San Diego, California, USA.

(55) Rosengren-Hovee AL, Menza TW, LeGrand S, **Muessig KE**, Hightow-Weidman LB. Stigma and mobile app use among young black men who have sex with men. Abstract P03.56. HIV Research for Prevention (HIVR4P), October 21-25, 2018, Madrid, Spain.

(54) LeGrand S, Platt A, **Muessig KE**, Egger J, Soni K, Hightow-Weidman LB. Predictors of condomless sex among non-suppressed adolescent MSM and transgender women in the United States. Abstract #TUPEC240, 22nd International AIDS Conference (AIDS 2018), July 23-27, Amsterdam, the Netherlands.

(53) Bauermeister JA, **Muessig K**, LeGrand S, Choi SK, Hightow-Weidman L. Improvement in HIV care continuum outcomes among young Black men who have sex with men: Results from forum engagement in the HealthMpowerment intervention. Abstract # THPEC313, 22nd International AIDS Conference (AIDS 2018), July 23-27, Amsterdam, the Netherlands.

(52) LeGrand S, Knudtson K, **Muessig KE**,Dixon M, Mcgee A, Dormitzer J, Jackson R, Adam E, Hightow-Weidman LB. P3 (Prepared, Protected, emPowered): Feasibility and acceptability of a PrEP adherence app featuring peer-to-peer sharing, game-based elements and in-app adherence counseling. Abstract #WEPDC0103, 22nd International AIDS Conference (AIDS 2018), July 23-27, Amsterdam, the Netherlands.

(51) Li C,\* Jiang H, Lei G, Dong W,\* Fisher E, Golin C, Tang PY, **Muessig K**. Coping with antiretroviral therapy related stressors among HIV-positive men who have sex with men in China. Abstract #TUPED423, 22nd International AIDS Conference (AIDS 2018), July 23-27, Amsterdam, the Netherlands.

(50) **Muessig K**, Li C, Dong W, Lei G, Tang PY, Giovenco D, Golin C, Fisher E, Jiang H. Desired characteristics of an eHealth enabled peer support intervention to address psychological and health system barriers to care among HIV-positive men who have sex with men in China. Abstract #THPED620, 22nd International AIDS Conference (AIDS 2018), July 23-27, Amsterdam, the Netherlands.

(49) Hightow-Weidman LB, LeGrand S, **Muessig KE**, Soni K, Knudtson K, Stephenson R. Innovative, technology-driven methodologies to collect qualitative data among youth. Abstract #TUPEE658, 22nd International AIDS Conference (AIDS 2018), July 23-27, Amsterdam, the Netherlands.

(48) Marsh KJ, LeGrand S, Wang Q, **Muessig K**, Horvath KJ, Hightow-Weidman LB. Addressing social support and social isolation in online interventions for young Black MSM and transgender women: Examining the role of peer-to-peer sharing. Abstract #THPEC307, 22nd International AIDS Conference (AIDS 2018), July 23-27, Amsterdam, the Netherlands.

(47) Golinkoff J, Bauermeister J, **Muessig K**, Hightow-Weidman LB. Ensuring privacy for youth participants in sensitive research interventions. YTH Live, May 6-7, 2018, San Francisco, California, USA.

(46) Golinkoff J, Bauermeister J, **Muessig K**, Hightow-Weidman LB. Measuring engagement in technology-based health interventions. YTH Live, May 6-7, 2018, San Francisco, California, USA.

(45) Blackburn N,\* Dong W,\* LeGrand S, Sallabank G, Hightow-Weidman LB, Barry M,\* Pulley D,\* **Muessig KE**. Structure and agency in an online space: A theoretical approach to online community in an HIV intervention among young Black men who have sex with men. APHA 2017, November 4-8, 2017, Atlanta, Georgia, USA.

(44) Horvath KJ, Ecklund A, **Muessig KE**, Amico R. Focus groups in 3 US cities to tailor an existing intervention for youth living with HIV (YLWH): Implications for developing technology-based interventions for YLWH. AIDS Impact, November 13-15, 2017, Cape Town, South Africa.

(43) Bauermeister JA, **Muessig K**, LeGrand S, Hightow-Weidman LB. HIV and sexuality stigma reduction through engagement in online forums: Results from the HealthMpowerment intervention. AIDS Impact, November 13-15, 2017, Cape Town, South Africa.

(42) **Muessig K**, Barry M, Dong W, Pulley D, Blackburn N, Sallabank G, Legrand S, Harper G, Choi S, Hightow-Weidman L, Bauermeister J. "How do we as young Black gay men stand strong?": The healthMpowerment online intervention as a space to engage with stigma related to HIV, sexuality, and race. Abstract #WEPEC1012, 9th IAS Conference on HIV Science (IAS 2017), July 23-26, 2017, Paris, France.

(41) Cao B,\* Gupta S, Wang J, Hightow-Weidman L, **Muessig K**,Tang W, Pan S, Pendse R, Tucker J. Social media interventions to promote HIV testing, linkage, adherence and retention among key populations: A systematic review and meta-analysis. Abstract #WEPEC0999, 9th IAS Conference on HIV Science (IAS 2017), July 23-26, 2017, Paris, France.

(40) LeGrand S, Simmons R, Blackburn N, Choi SK, **Muessig KE**, Hightow-Weidman LB. Latent substance use profiles and associations with condomless anal intercourse among a sample of young Black men who have sex with men and transgender women in the United States. Abstract #TUPEC0761, 9th IAS Conference on HIV Science (IAS 2017), July 23-26, 2017, Paris, France.

(39) Hightow-Weidman LB, Knudtson K, **Muessig KE**, Srivatsa M, Lawrence E, LeGrand S, Kirschke-Schwartz H, Lemos D, Balthazar C, Hosek S. AllyQuest: Engaging HIV+ young MSM in care and improving adherence through a social networking and gamified smartphone app. Abstract #TUPEDC1273, 9th IAS Conference on HIV Science (IAS 2017), July 23-26, 2017, Paris, France.

(38) Hightow-Weidman LB, LeGrand S, Simmons R, Egger J, Choi SK, **Muessig KE**. healthMpowerment: Effects of a mobile phone-optimized, internet-based intervention on condomless anal intercourse among young Black men who have sex with men and transgender women. Abstract #WEPEC1001, 9th IAS Conference on HIV Science (IAS 2017), July 23-26, 2017, Paris, France.

(37) LeGrand S, Pulley D, Blackburn N, Barry M, Sallabank G, Dong W, Harper G, Hightow-Weidman L, Bauermeister J, Choi SK, **Muessig K**. “I've finally deleted Jack'd (for good)”: In-group HIV, sexuality and racial stigma within geospatial networking apps and sexual networking websites. Abstract #TUPEC0769, 9th IAS Conference on HIV Science (IAS 2017), July 23-26, 2017, Paris, France.

(36) Sallabank G,\* Blackburn N,\* Dong W,\* LeGrand S, Barry M,\* Pulley D,\* Hightow-Weidman L, Harper G, Bauermeister J, **Muessig K**. “She thought I instantly had AIDS”: How media representation influences perception and stigmatization of race, sexuality and HIV among young Black men who have sex with men. Abstract #WEPEC1013, 9th IAS Conference on HIV Science (IAS 2017), July 23-26, 2017, Paris, France.

(35) **Muessig KE**, LeGrand S, Sanon N, Soni K, Nwoko NC, Platt A, Hightow-Weidman LB. “Yes, I’m ready, and I’m taking them!”: HIV-infected young men who have sex with men and transgender women evaluate the Epic Allies gamified smartphone app for improving antiretroviral uptake and adherence. Abstract #386, International Association of Providers of AIDS Care, 12th International Conference on HIV Treatment and Prevention Adherence (Adherence 2017), June 4-6, Miami, Florida, USA.

(34) Bauermeister JA, **Muessig KE**, LeGrand S, Flores D, Choi SK, Dong W, Harper G, Hightow-Weidman LB. Intersectional stigma and psychological distress among young Black men who have sex with men: Differences by HIV status. Abstract #410, International Association of Providers of AIDS Care, 12th International Conference on HIV Treatment and Prevention Adherence (Adherence 2017), June 4-6, Miami, Florida, USA.

(33) Dong W,\* **Muessig K**, Hightow-Weidman, L. Beyond positive and negative: The evolving ethical context of HIV serostatus disclosure among young men who have sex with men. 77th Annual Meeting, Society for Applied Anthropology (SfAA 2017), March 28-April 1, 2017, Santa Fe, New Mexico, USA.

(32) Anand T,\* Nitpolprasert C,\* Phanuphak P, Jantarapakde J, Keeratikongsakul, Promthong S, Kerr SJ, **Muessig KE**, Hightow-Weidman LB, Ananworanich J, Phanuphak N. Creating an online HIV prevention and treatment case using the Adam’s Love electronic health record system. Abstract #THPEE506, 21th International AIDS Conference (AIDS 2016), July 18-22, Durban, South Africa.

(31) Mathews A, Anderson A, Farley S, Hightow-Weidman L, **Muessig K**, Rennie S, Tucker J. An innovation contest as community engagement for HIV cure research in North Carolina: A mixed methods evaluation. Abstract #THPDD0106LB, 21th International AIDS Conference (AIDS 2016), July 18-22, Durban, South Africa.

(30) LeGrand S, **Muessig K**, Choi SK, Soni K, Kirschke-Schwartz H, Hightow-Weidman LB. Associations between multiple types of stigma and discrimination and sexual risk behavior among young Black men who have sex with men and transgender women in the United States. Abstract #THPED390, 21th International AIDS Conference (AIDS 2016), July 18-22, Durban, South Africa.

(29) Choi SK,\* LeGrand S, **Muessig K**, Soni K, Kirschke-Schwartz H. How do safer sex intentions impact HIV sexual risk behavior in young Black men who have sex with men? A mediation analysis. Abstract #TUPEE567, 21th International AIDS Conference (AIDS 2016), July 18-22, Durban, South Africa.

(28) Hightow-Weidman L, LeGrand S, Soni K, Kirschke-Schwartz H, Choi SK, **Muessig K**. Technology-related predictors of social isolation among young Black MSM. Abstract #TUPED329, 21th International AIDS Conference (AIDS 2016), July 18-22, Durban, South Africa.

(27) Anand T,\* Nitpolprasert C,\* Ananworanich J, Jantarapakde J, Kerr SJ, Sohn AH, **Muessig** **KE**, Hightow-Weidman LB, Phanuphak P, Phanuphak N. Characteristics of HIV risks among Thai young men who have sex with men and transgender youth using an ecounseling platform. Abstract #TUPEC229, 21th International AIDS Conference (AIDS 2016), July 18-22, Durban, South Africa.

(26) **Muessig KE**, Zalla L, Emmanuel E, Bula A, Cloete A, Chilundo S, Sapalalo P, Herce M, Miller W, Lancaster K, Weir S. Minimizing unintended risks of HIV-related programmatic mapping among key populations: Introducing the Mapping Readiness Assessment. Abstract #WEPED325, 21th International AIDS Conference (AIDS 2016), July 18-22, Durban, South Africa.

(25) Knudtson KA,\* Soni K,\* **Muessig KE**, Dong W,\* Conserve D, Hightow-Weidman L. "Tough Talks": Developing a virtual reality application to support HIV status disclosure among young MSM. Abstract #THPEE504, 21th International AIDS Conference (AIDS 2016), July 18-22, Durban, South Africa.

(24) **Muessig KE**, Whipple W, Grewe MB, Gilbertson AL, Tucker JD, Thomas A, Kelly E, Wang N, Hightow-Weidman LB. HIV CURE GOES VIRAL: An analysis of HIV cure #hashtags. Abstract #3692, International AIDS Society, 2015, Towards an HIV Cure Symposium, July 18-19, Vancouver, Canada.

(23) **Muessig KE**,Panter AT, Mouw MS, Amola K, Stein KE, Murphy JS, Maiese EM, Wohl DA. Medication taking practices of patients on antiretroviral HIV therapy: Intentionality, power and control. Abstract #100, International Association of Providers of AIDS Care, Adherence Conference 2015, June 28-30, Miami, Florida, USA.

(22) Hightow-Weidman LB, LeGrand S, **Muessig KE**,Pike EC, Caktus Group. Epic Allies: Fight bad guys, remember your meds, save the world. Abstract #101, International Association of Providers of AIDS Care, Adherence Conference 2015, June 28-30, Miami, Florida, USA.

(21) Han L,\* Bien CH,\* Wei CY, **Muessig KE**, Yang M, Liu FY, Yang LG, Meng R, Emch M, Tucker JD. HIV self-testing among online MSM in China: Implications for expanding HIV testing among key populations. 20th International AIDS Conference (AIDS 2014), 20-25th July, 2014, Melbourne, Australia.

(20) Wei CY, **Muessig KE**, Bien C, Yang LG, Han L, Yang M, Tucker JD. Strategies for promoting HIV testing uptake: Couple and group-based HIV testing among men who have sex with men in China. Abstract #A-641-0260-00183, 20th International AIDS Conference (AIDS 2014), July 20-25, 2014, Melbourne, Australia.

(19) **Muessig KE**, Bien CH, Lo EJ, Wei CY, Yang M, Tucker JD, Yang LG, Meng R, Hightow-Weidman LB. High acceptability of eHealth to increasing HIV testing and care among young men who have sex with men in China. Poster presentation, YTH Live 2014, April 6-8, San Francisco, California, USA. <http://yth.org/ythlive/about/>

(18) LeGrand S, **Muessig KE**, Pike EC, Baltierra N, Bull S, Hightow-Weidman LB. Developing Medtropolis a “positively heroic” gaming and social networking app to improve medication adherence among young HIV+ Black MSM. Oral presentation, YTH Live 2014, April 6-8, San Francisco, California, USA. <http://yth.org/ythlive/about/>

(17) Pike EC,\* Baltierra N,\* **Muessig KE**, LeGrand S, Bull S, Hightow-Weidman LB. Level Up! How gamification can be used to spark competition, collaboration, and community in online health behavior interventions. Oral presentation, YTH Live 2014, April 6-8, San Francisco, California, USA. <http://yth.org/ythlive/about/>

(16) Baltierra N,\* LeGrand S, Pike EC,\* **Muessig KE**, Bull S, Hightow-Weidman LB. More than \*just\* tracking time: Measuring engagement within an internet-based HIV/STD intervention. Poster presentation, YTH Live 2014, April 6-8, San Francisco, California, USA. <http://yth.org/ythlive/about/>

(15) Farel CE, Parker S, **Muessig KE**,Grodensky CA, Jones C. Whatever I got, you gonna get: HIV risk and perception of male condoms among incarcerated African American women in North Carolina. Abstract #290749, Roundtable presentation at the 141th American Public Health Association Annual Meeting & Exposition, November 2-6, 2013, Boston, Massachusetts, USA.

(14) Hightow-Weidman LB, Pike EC, Baltierra N, Fowler B, **Muessig KE**. Putting prevention in their pocket: Developing and testing healthMpowerment.org, an interactive, mobile phone- and web-based intervention for YBMSM. Oral presentation at YTH Live, ISIS 6th annual Conference on Youth, Tech and Health, April 6-9, 2013, San Francisco, California, USA.

(13) **Muessig KE**, Bien CH, Min Y, Tucker JD, Lee R, Peeling RW, Yang LG, Yang B, Hightow-Weidman L. Formative research on e-health approaches to increase HIV testing and linkage to care among MSM in South China. Poster presentation at the Consortium of Universities for Global Health's 4th Annual Conference, March 14-16, 2013, Washington DC, USA.

(12) Bien CH,\* **Muessig KE**,Lee R,\* Cui R,\* Lo EJ,\* Gong N,\* Yang LG, Yang B, Peeling RW, Tucker JD. Point-of-care STD testing among MSM in South China: A qualitative analysis to inform implementation. Poster presentation at the Consortium of Universities for Global Health’s 4th Annual Conference, March 14-16, 2013, Washington DC, USA.

(11) Tucker JD, **Muessig KE**, Cui R, Bien CH, Lee R, Yang LG, Yang B, Larson H, Peeling RW. Social entrepreneurship for sexual health: New models for increasing point-of-care test implementation. Poster presentation at the Consortium of Universities for Global Health’s 4th Annual Conference, March 14-16, 2013, Washington DC, USA.

(10) Farel CE, Parker SD, **Muessig KE**, Grodensky CA, Jones C, Golin CE, Fogel CI, Wohl DA. Transactional sex and HIV risk among incarcerated African-American women in North Carolina (NC). Abstract #259319, Roundtable presentation at the 140th American Public Health Association Annual Meeting & Exposition, October 27-31, 2012, San Francisco, California, USA.

(9) **Muessig KE**. Stretching sexual boundaries: Male sex work and HIV risk in China. Oral presentation at the 72nd Annual Meeting of the Society for Applied Anthropology, March 27-31, 2012, Baltimore, Maryland, USA.

(8) **Muessig KE**, Pike E, LeGrand S, Hightow-Weidman LB. A systematic review of mobile phone applications for HIV care and prevention. Abstract #21167/LBPE36, XIX International AIDS Conference, July 22-27, 2012, Washington, DC, USA.

(7) Baral S, Beyrer C, **Muessig K**, Poteat T, Wirtz A, Decker M, Sherman S, Kerrigan D. High and disproportionate burden of HIV among female sex workers in low- and middle-income countries: A systematic review and meta-analysis. Abstract #THAC0501, XIX International AIDS Conference, July 22-27, 2012, Washington, DC, USA.

(6) Farel CE, Parker SD, **Muessig KE**, Grodensky CA, Jones C, Golin CE, Fogel CI, Wohl DA. “I live with my girlfriend, and my girlfriend has a husband”: Complex sexuality and HIV risk among incarcerated African-American women in North Carolina. Abstract #TUPE557, XIX International AIDS Conference, July 22-27, 2012, Washington, DC, USA.

(5) Nachega J, Uthman O, MillsE, **Muessig KE**, BernardL, McIntyreJ, Mofenson L. Adherence to Antiretroviral Therapy (ART) during and after pregnancy in low-, middle and high income countries: A systematic review and meta-analysis. Paper #1006, 19th Conference on Retroviruses and Opportunistic Infections, March 5-8, 2012, Seattle, Washington, USA.

(4) Kennedy C, Bernard L, **Muessig K**, O’Reilly K. Meta-analysis of the association between serosorting and HIV/STI infection. Abstract #4267, 6th IAS Conference on HIV Pathogenesis, Treatment and Prevention, July 17-20, 2011, Rome, Italy.

(3) **Muessig KE**. Invisible Citizens: Straight men who sell sex to men in China. Oral presentation at the American Anthropological Association 109th Annual Meeting, November 17-21, 2010, New Orleans, Louisiana, USA.

(2) **Muessig KE**, Li J, Chen XS. Sexual network overlaps between China’s male and female commercial sex industries. NIH Fogarty International Center Research Scholars and Fellows Alumni Symposium, September 23-26, 2010, Bethesda, Maryland, USA

(1) **Muessig KE**. Oral presentation: Sexual networks of men who sell sex to men in China and HIV/STD risk. Chinese 5th National STD Conference, May 15-19, 2010, Haikou, Hainan, China.

**TEACHING AND MENTORING ACTIVITIES**

**Courses taught**

**HBEH860:** Research Proposal Development (required doctoral seminar)

Spring 2016 – 2020

The Gillings School of Global Public Health

Enrollment: 2016, n=14; 2017, n=9; 2018, n=9; 2019, n=10; 2020, n=10

**HBEH815:** Theoretical and Conceptual Foundations of Health Behavior and Health Education:

Globalization and Health, Module 2 (required doctoral seminar)

Fall 2014 – 2017

The Gillings School of Global Public Health

Enrollment: 2014, n=16; 2015, n=12; 2016, n=12; 2017, n=11

**COMH7267:** mHealth Technologies for HIV/AIDS Implementation Research (Masters of Implementation Science, elective)

September 2016; September 2017

2-week intensive course (40 online instruction hours, 40 classroom instruction hours)

University of the Witwatersrand, Johannesburg, South Africa

Enrollment: 2016, n=12; 2017, n=10

**HBEH746:** MPH Capstone, Faculty Advisor for one student team

Academic year 2014-15, n=4 students

Academic year 2015-16, n=5 students

Academic year 2017-18, n=5 students

Academic year 2019-20, n=5 students

**Student Advising: Ongoing**

\* Funded by my sponsored research

|  |  |  |  |
| --- | --- | --- | --- |
| **Student** | **Degree program** | **Role** | **Dates** |
| Willa Dong | PhD, Health Behavior | Dissertation chair | August 2015 – present |
| Chunyan Li \* | PhD, Health Behavior | Dissertation chair | August 2017 – present |
| Kevin Smith \* | PhD, Health Behavior | Primary academic advisor | August 2017 – present |
| Megan Threats | PhD, Information Science | Dissertation committee | July 2017 – present |
| Dirk Davis | PhD, Health Behavior | Dissertation committee | Sept 2018 – present |
| Minh Nguyen | PhD, Health Behavior | Dissertation committee | January 2019 – present |
| Jennifer Richmond | PhD, Health Behavior | Dissertation committee | March 2019 – present |
| Julianne Power | PhD, Health Behavior | Dissertation committee | June 2019 – present |
| Megan Evans | PhD, Health Behavior | Dissertation committee | August 2019 – present |
| Lindsey Filiatreau | PhD, Epidemiology | Dissertation committee | August 2019 – present |
| Hunter McGuire | MPH, Health Behavior | Primary academic advisor | August 2018 – present |
| Casey Watters | MPH, Health Behavior | Primary academic advisor | August 2018 – present |
| Claire Cote | MPH, Global Health | Primary academic advisor | August 2019 – present |

**Student advising: Completed since June 2013**

**PhD**

* **Elizabeth Chen**, UNC-Chapel Hill, PhD 2019, Health Behavior, dissertation committee member.

Dissertation title: Development and validation of a new scale to measure the acceptability of mobile health applications among adolescents.

* **Seul Ki Choi**, UNC-Chapel Hill, PhD 2019, Health Behavior, dissertation committee member.

Dissertation title: Sexual empowerment and stigma among young Black men who have sex with men: healthMpowerment.org, a mobile phone optimized online intervention to reduce sexual risk behaviors.

* **Laura Villa-Torres**, UNC-Chapel Hill, PhD 2018, Health Behavior, dissertation committee member.

Dissertation title: Living undocumented: an ethnographic study of the mental health and wellbeing of undocumented Mexican migrant men.

* **Sara Kowitt,** UNC-Chapel Hill, PhD 2018, Health Behavior, dissertation committee member.

Dissertation title: How, why, and for whom do neighborhood characteristics matter? Using multi-level modeling to examine associations among neighborhood context and health outcomes.

* **Kamden Hayashi**, UNC-Chapel Hill, PhD 2018, Health Behavior, dissertation committee member.

Dissertation title: Time preference and HIV risk behavior in Kenya and Malawi

**MPH**

* **Anna Perry,** UNC-Chapel Hill, MPH 2019, Health Behavior, academic advisor.
* **Chris Noronha,** UNC-Chapel Hill, MPH 2019, Health Behavior, academic advisor.
* **Nikhil Sanon,** UNC-Chapel Hill, MPH 2018, Health Behavior, academic advisor, research project mentor.
* **Joshua Boegner,** UNC-Chapel Hill, MPH 2018, Health Behavior, academic advisor.
* **Deren Pulley,** UNC-Chapel Hill, MPH 2018, Health Behavior, research fellowship mentor, practicum preceptor.
* **Jaclyn Shea,** UNC-Chapel Hill, MPH 2018, Health Behavior, research fellowship mentor.
* **Shauna Ayres,** UNC-Chapel Hill, MPH 2017, Health Behavior, academic advisor.
* **Morgen Palfrey,** UNC-Chapel Hill, MPH 2017, Health Behavior, academic advisor.
* **Lillie Armstrong,** UNC-Chapel Hill, MPH 2016, Health Behavior, academic advisor.
* **Joel Mercado Blanco,** UNC-Chapel Hill, MPH 2016, Health Behavior, academic advisor.
* **Chen Zhang,** UNC-Chapel Hill, MPH 2016, Health Behavior, practicum preceptor.
* **Joanna Davis**, MPH 2015, Gillings School of Global Public Health, Maternal and Child Health

Primary advisor for summer research practicum in Beijing, China, 2014

Project title: “Designing a relationship support-based intervention for HIV-positive women.”

* **Nancy Li**, MPH 2014, Gillings School of Global Public Health, Maternal and Child Health

Master’s thesis second reader

Thesis title: “Improving male involvement in HIV testing in men who have sex with men in China.”

**MD**

* **Rosa Cui**, MD 2015, Columbia University Medical School

UNC Project China Trainee, 2012-2013

Project title: “Social entrepreneurship for sexual health: Stakeholder analysis to develop new models for increasing point-of-care test implementation.”

* **Ramon Lee**, MD 2015, Harvard University Medical School

UNC Project China Trainee, 2012-2013

Project title: “Incentivizing HIV/STI Testing: A Systematic Review of the Literature.”

* **Cedric Bien**, MD 2014, Mount Sinai School of Medicine

UNC Doris Duke Fellow, Guangzhou, China, 2012-2013

Project title: “Point-of-care STD testing among men who have sex with men in South China: a qualitative analysis to inform implementation.”

**BSPH**

* **Yang Min**, BSPH 2015, Gillings School of Public Health, Health Policy and Management

UNC Project China Trainee, 2013

Project title: “eHealth approaches to increase HIV testing and linkage to care among MSM in South China: a mixed methods study.”

**Visiting scholars hosted or mentored: Completed since June 2013**

* **Suowei Xiao,** PhD, Assistant Professor, Beijing Normal University, School of Social Development and Public Policy

UNC visiting scholar, Sept 2014 – July 2015,

International Visiting Scholarship, State Scholarship Fund, China Fellowship Council

Project title: “The social management of the risk amplification of adverse events following immunization (AEFI).”

* **Yanhong Hu**, MD, MPH, PhD 2016 from University of Hong Kong, Public Health

UNC visiting scholar, Sept 2015 – Aug 2016

Fulbright Research Scholarship

Dissertation title: “Community intervention to reduce irrational antibiotic prescription among children in rural China.”

* **Wenqing Wang**,PhD, Assistant Professor, Beijing Institute of Technology, Department of Social Work

UNC visiting scholar, Sept 2015 – July 2016

International Visiting Scholarship, State Scholarship Fund, China Fellowship Council

Project title: “Quantitative exploration of the connection between social networks and male migrants’ HIV sexual risk in Beijing China.”

**CONTRACTS & GRANTS**

**Active funding**

R34MH118058 (PI : Muessig) 07/01/18 – 06/30/21

NIMH

**Title : Piloting a Sequential Multiple-Assignment Randomization Trial to evaluate AllyQuest: an mHealth intervention for HIV-positive young MSM to optimize HIV medication adherence and care outcomes**

Ally Quest (AQ) is a theory-informed HIV antiretroviral adherence and social support application (app) created by our multi-disciplinary team. We will incorporate additional interactive features into AQ and establish its efficacy through an innovative pilot Sequential Multiple-Assignment Randomization Trial (SMART) design that evaluates an escalation versus de-escalation approach to intervention intensity.

**Role: Principal Investigator (1.5 calendar months)**

Total award amount : $ 711,945

R01MD013623 (PIs : Muessig ; Bauermeister) 08/16/18 – 03/31/23

NIMHD

**Title : Increasing engagement and improving HIV care outcomes via stigma reduction in an online social networking intervention among racially diverse young men who have sex with men and transgender women**

Stigma exacerbates the HIV epidemic by negatively impacting the HIV care continuum. Young Black and

Latino men who have sex with men and transgender women (YBLMT) face multiple forms of stigma related to

sexuality, race, and HIV infection, and experience significant disparities in HIV outcomes. Through a

three-arm randomized controlled trial, we will assess the ability of social support components of an online,

mobile-optimized intervention to reduce stigma and improve HIV prevention and care behaviors among YBLMT

ages 15 to 29.

**Role : Principal Investigator (1.8 calendar months)**

Total award amount : $ 3,736,682

R21TW010965 (PI : LeGrand) 07/15/18 – 06/30/20

NIH Fogarty International Center

**Title : Novel mHealth technologies to enhance PrEP adherence among Thai YMSM : collaborative adaption and evaluation**

Pre-exposure prophylaxis (PrEP) is a promising strategy for reducing HIV infections among young men who have sex with men (YMSM) in Thailand; however, PrEP efficacy is highly correlated with adherence and adherence among young populations is low. There are currently no proven interventions to promote PrEP adherence among YMSM specifically designed for the Thai context. We will adapt a novel mobile phone application (app) platform that utilizes game mechanics and social networking features to improve PrEP adherence for Thai YMSM and conduct a pilot study to test its feasibility, acceptability, and potential impact.

**Role : Investigator (0.5 calendar months)**

Total award amount : $ 397,494

Agreement #17-623A (PI : Muessig) 12/01/17 – 12/31/20

CONRAD Microbicide & Contraception Research/Eastern Virginia Medical School

**Title : Evaluation of Daily F/TDF vs Daily F/TAF vs Event-Driven E/C/F/TAF Oral PrEP in African Women**

HIV disproportionately impacts young women in Sub-Saharan Africa. Effective, low-burden HIV pre-exposure prophylaxis (PrEP) regimens are needed for young women in this setting. This study will evaluate three different PrEP adherence regimens and dosing approaches and will use video-based directly observed therapy (vDOT) to support and measure PrEP adherence. As a consultant, I will provide expertise in the use of qualitative methods for optimizing clinical trial design and evaluation strategies, intervention approaches to improving medication adherence among youth, and the design and evaluation of smartphone technologies to support medication adherence.

**Role : Sub-contract Principal Investigator (0.5 calendar months)**

Total contract amount : $ 24,949

U01PS005181-01 (PI : Sullivan) 09/01/17 – 08/31/21

US Centers for Disease Control

**Title : Engaging African American and Latino MSM for HIV Testing and Prevention Services through Technology.**

Black and Hispanic MSM are the most heavily impacted risk groups in the US HIV epidemic, but past studies show challenges recruiting these men to uptake routine HIV testing. We will implement a comparative effectiveness trial to evaluate the relative performance of two strategies – each based on an innovative, established internet-based platform – to promote HIV testing among Black and Hispanic MSM.

**Role : Investigator (0.5 calendar months)**

Total award amount : $ 3,396,060

U19HD089881-01 (Analytic Core PIs : Muessig ; Sanchez ; Center PIs : Hightow-Weidman ; Sullivan) 09/30/16 – 05/31/21

NICHD

**Title : The UNC/Emory Center for Innovative Technology (iTech) Across the Prevention and Care Continuum.** This Center grant aims to improve HIV prevention and care outcomes for adolescents and young adults. UNC will oversee and support the design, implementation and evaluation of ten technolology-based interventions tested in randomized controlled trials across 11 US research sites. I am mPI for the iTech’s Analytic Core which supports study design, implementation, data management and analysis, leading all aspects of the formative phases for intervention development and pilot testing.

**Role : Analytic Core co-director (5.3 calendar months)**

Award amount to-date : $ 1,700,984 (awarded to-date for 2016 – 2018 for Analytic Core only)

2R44MH104102-03 (PIs: Adams Larsen ; Hightow-Weidman) 06/14/17 – 05/31/20

NIMH

**Title : Tough Talks : A Disclosure Intervention for HIV+ YMSM**

HIV status disclosure can reduce HIV transmission risk behavior and improve HIV care outcomes among people living with HIV. In this intervention we will create a novel prevention tool using virtual reality programming and natural language processing software to support skill building for sexual health communication with intimate partners regarding disclosure of HIV status.

**Role : Investigator (1.2 calendar months)**

Total award amount : $ 667,877

**Completed grants**

2017 UNC Project Vietnam Pilot Award (PI : Muessig) 10/25/17 – 10/31/18

UNC Provost Fund

**Title : Developing the CARE+ interactive eHealth provider training tool to enhance HIV prevention and care services among men who have sex with men in Vietnam.**

Health care provider interventions in Vietnam could reduce stigma experienced by people living with HIV and and better integrate appropriate HIV care services within primary care settings. In this pilot study we will create CARE+, an electronic health (eHealth) HIV care training program and reference tool for providers to improve HIV care continuum services for men who have sex with men. We will identify optimal delivery approaches, create core intervention components and content, and apply for further funding to test the intervention.

**Role : Principal Investigator (0 calendar months – funds not permitted to cover PI effort)**

Total award amount : $ 15,000

1R21MH105292-01A1 (PIs : Muessig ; Bauermeister) 09/01/15 – 01/31/19

NIMH

**Title : Addressing stigma among Black MSM in a mobile phone and internet HIV intervention**

Multiple forms of stigma contribute to suboptimal outcomes along the HIV prevention and care continuum for young Black men who have sex with men (YBMSM). This mixed-methods research study aims to address a critical need to understand how a web and mobile-phone based intervention could reduce intersectional stigma among HIV-positive and HIV-negative YBMSM.

**Role : Principal Investigator (0.5 calendar months during no-cost extension period)**

Total award amount : $ 442,941

5D43TW009774-02 (PI : Pettifor) 06/01/14 – 03/31/18

NIH

**Title : UNC Wits AIDS Implementation Research and Cohort Analyses Training Grant**

This training program created the first long term implementation science and research degree program in Sub Saharan Africa located at Witwatersrand University in Johannesburg. For this grant I developed and co-taught a 2-week graduate-level course on the use of eHealth/mHealth for HIV prevention and care (40 classroom instruction hours, 40 online instruction hours).

**Role : Investigator (0.6 calendar months)**

Total award amount : $ 1,505,924

UNC Center for AIDS Research Developmental Award (PI : Muessig) 09/01/15 – 07/31/18

UNC CFAR (NIH P30 AI50410)

**Title : Designing a peer-support, eHealth enabled intervention to increase linkage to care and medication adherence among HIV+ men who have sex with men in China**

This study completed formative research to understand the unmet needs in HIV linkage to care and adherence for HIV-positive MSM in Chengdu, China. I conducted a needs assessment through qualitative interviews with MSM and key stakeholders. The results informed the development of an integrated peer support/eHealth intervention that I aim to test in a future full randomized controlled trial.

**Role : Principal Investigator (0 calendar months – funds not permitted to cover PI effort)**

Total award amount : $ 29,995

5R01AI108366-02 (PIs : Tucker ; Rennie) 10/01/14 – 05/31/18

NIAID

**Title : Unintended and intended implications of HIV Cure: a social and ethical analysis**

This study developed a theoretical framework about HIV cure research and early implementation, determined HIV cure stakeholder perspectives on cure research and early implementation in Cape Town, South Africa, Guangzhou, China, and Chapel Hill, USA, and developed and assessed the feasibility of novel approaches to promoting stakeholder engagement. I supported the use of technology and development of social media platforms to promote community engagement around HIV cure research.

**Role : Investigator (1.2 calendar months)**

Total award amount : $ 2,254,470

USAID – FHI360 (PI : Weir) 07/03/14 – 01/31/18

**Title : Linkages across the continuum of HIV services for key populations affected by HIV**

This USAID-funded contract built on resources at the University of North Carolina (UNC), FHI360, and IntraHealth to reduce loss-to-follow-up along the HIV testing, linkage and care cascade in Africa and Southeast Asia. I created the Mapping Readiness Assessment field toolkit and provided technical assistance to UNC investigators and in-country partners for the design and implementation of project components requiring qualitative research methods.

**Role : Investigator (1.68 calendar months)**

Total estimated award amount : $ 9,000,000

1R21MH107266-01 (PIs : Hightow-Weidman ; Hosek) 08/01/15 – 05/31/17

NIMH

**Title : AllyQuest: Engaging HIV+ YMSM in Care through Social Networking and Gamification**

This study created a pilot version of AllyQuest - a secondary prevention intervention delivered via mobile phone app to improve linkage and engagement in care among newly diagnosed HIV-positive young MSM. The features of the intervention target barriers to care among newly diagnosed youth (low HIV health literacy, lack of social support, and internalized stigma related to their diagnosis). I led formative data collection to inform the intervention design and pilot test evaluation.

**Role : Investigator (1.0 calendar months)**

Total award amount : $ 466,114

R44 MH102096-02 (PIs : McNulty ; Hightow-Weidman) 09/01/14 – 08/31/16

NIMH

**Title : Epic Allies : A smartphone app for ART uptake and adherence among YMSM**

This study evaluated the effectiveness of Epic Allies – a mobile phone application (app) that utilizes game mechanics and social networking features to improve engagement in care, antiretroviral therapy uptake and adherence among HIV-positive young men who have sex with men recruited through the Adolescent Trials Network (ATN) in a 2-arm randomized controlled trial with measures at baseline 3, 6 and 9 months. I supported the final development and pre-testing of the intervention app and led the qualitative data collection for the intervention process evaluation and user experience.

**Role : Investigator (1.2 calendar months)**

Total award amount : $ 996,311

1R43MH104102-01 (PIs : McDaniel ; Hightow-Weidman) 10/01/14 – 08/31/16

NIMH

**Title : Tough Talks: A Disclosure Intervention for HIV+ YMSM**

In this intervention we created a novel prevention tool using virtual reality programming and natural language processing software to support skill building for sexual health communication with intimate partners regarding disclosure of HIV status. On this grant I led formative data collection to inform the design and pilot testing of the intervention and the analysis of the pilot study outcomes.

**Role : Investigator (1.2 calendar months)**

Total award amount : $ 667,877

5R01MH093275 (PI : Lisa Hightow-Weidman) 09/20/11 – 06/30/16

NIMH

**Title : HEALTHMPOWERMENT.ORG: An online and mobile HIV intervention for young Black MSM**

In this grant we developed and tested in a state-wide RCT a mobile optimized web-based intervention for young, Black MSM and transgender women that focused on the use of social support, empowerment and gamification features to improve HIV prevention and care. I supported the intervention development and evaluation through the design, collection and analysis of formative research data (in-depth interviews, focus groups, usability testing, quantitative survey instrument development, and pilot study exit interviews), and analysis of RCT study primary and secondary outcomes.

**Role : Investigator (1.2 calendar months)**

Total award amount : $ 2,265,324

1 R43 MH102096-01 (PIs : McNulty ; Hightow-Weidman) 09/01/13 – 06/28/14

NIMH

**Title : Daily Dose: a mobile phone app to improve HIV adherence among young Black MSM**

In this study we developed a smartphone app to support HIV medication adherence among young MSM. I conducted formative research (focus groups and literature reviews) to inform the app’s development, created educational within-app content, and conducted usability testing of functional app prototype with end-users. We then secured additional funding to fully build-out the app and test it in a national RCT (see Epic Allies grant above) through the Adolescent Trials Network.

**Role : Investigator (1.2 calendar months)**

Total award amount : $ 150,000

F31 MH086345-01 (PI : Muessig) 03/05/09 – 03/04/11

NIMH

**Title : Qualitative methods for public health research: HIV/STI prevention in China**

As PI on this pre-doctoral NRSA grant I conducted an original research study that described and compared the migration, work, HIV/STI health and education needs, and relationship histories of rural to urban migrant men who sell sex to men in three Chinese cities. I designed all aspects of the study and completed data collection (systematic review and meta-analysis, in-depth interviews, participant observation) and analysis for my doctoral dissertation.

**Role : Principal Investigator (12 calendar months)**

Total award amount : $ 82,556

Fulbright Institute for International Education (PI : Muessig) 03/01/08 – 12/31/08

**Title : The changing face of depression in the People’s Republic of China**

As PI on this pre-doctoral Fulbright grant, I designed and conducted independent research in Nanjing, China on depression and treatment seeking behaviors among rural to urban migrants.

**Role : Principal Investigator (10 calendar months)**

Direct funding : $ 17,200

**MEMBERSHIPS**

2012-present Delta Omega Honorary Society in Public Health

**PROFESSIONAL SERVICE**

**International**

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| 2014 | Reviewer, International Union against Sexually Transmitted Infections (IUSTI), Asia Pacific Conference, Bangkok, Thailand |

**National**

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| 2020 Jan | Grant Reviewer, NIH Center for Scientific Review; National Institute on Drug Abuse (NIDA) Avenir Award Program for HIV/AIDS (DP2), Adhoc reviewer |
| 2019 July | Grant Reviewer, NIH Center for Scientific Review; HIV/AIDS Intra- and Inter-personal Determinants and Behavioral Interventions Study Section (HIBI) Adhoc reviewer |
| 2019 Apr | Grant Reviewer, NIH Center for Scientific Review Special Emphasis Panels; COI Review Panel, Review Meeting ZRG1 AARR-R 04 |
| 2018 Dec | Grant Reviewer, NIH Center for Scientific Review Special Emphasis Panels; SBIR HIV/AIDS Innovative Research Applications, Review Meeting ZRG1 AARR-G 10 |
| 2018 July | Grant Reviewer, NIH Center for Scientific Review Special Emphasis Panels; National Institute on Minority Health and Health Disparities, Review Meeting ZMD1 DRI O1 |
| 2016 June | Grant Reviewer, NIH Center for Scientific Review Special Emphasis Panels; SBIR HIV/AIDS Innovative Research Applications, Review Meeting ZRG1 AARR-G 10 |
| 2016 Feb | Expert Consultant, White House Meeting, Translating Research into Action: Reducing HIV Stigma to Optimize HIV Outcomes. Washington, D.C. Office of AIDS Research, Office of the National AIDS Policy and the National Institute of Mental Health |

**Editorial Board**

2014 – present *Sexually Transmitted Diseases*

**Ad Hoc Reviewer**

*AIDS*

*AIDS and Behavior*

*AIDS Care*

*AIDS Education and Prevention*

*AIDS Patient Care and STDs*

*American Journal of Public Health*

*BioMed Central Public Health*

*Journal of Medical Internet Research*

*Journal of Telemedicine and Telecare*

*Journal of Homosexuality*

*Journal of the International AIDS Society*

*Patient Education and Counseling*

*Sexual Health*

**UNC Chapel Hill**

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| 2014 – 2019 | Advisory Board Member, Carolina Asia Center |
| 2014, 2015, 2018 | Scholarship Review Committee Member, Foreign Language and Area Studies (FLAS) for Asian languages |
| 2013 – 2020 | Faculty Reviewer, UNC Doris Duke and Fogarty Fulbright International Clinical Research Fellowships |
| 2017 | Internal Advisory Board Member, University of North Carolina Center for AIDS Research (CFAR): Social and Behavioral Sciences Core |
| 2014 | Scholarship Review Committee Member, Carolina Southeast Asian Summer Program (SEAS) |

**UNC Gillings School of Global Public Health**

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| 2019 – present | Faculty member; Research workgroup of the Gillings School Evaluation Committee (GSEC) |
| 2015 – present | Gillings School of Global Public Health Faculty Representative for PUBH 420: HIV/AIDS: Principles, Practices, and Politics |
| 2016 – present | Founding faculty advisor to officially registered student group: LGBTQ Health Disparities Research Collaborative |

**Department of Health Behavior**

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| 2019 | Faculty search committee, global health hire |
| 2014 – 2017; 2018 – 2019 | Member, MPH Admissions Committee |
| 2013 – 2018 | Faculty member, Student Global Health Roundtable |
| 2015 | Co-chair, Student Survey Subcommittee, Graduate Program Review and CEPH Reaccreditation |
|  |  |