

CURRICULUM VITAE

Xiangrong Kong

PERSONAL DATA

University of Massachusetts-Amherst
 School of Public Health and Health Sciences
 Arnold House 421
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EDUCATION AND TRAINING

2014-2018	NIH K25 career award “Identifying multi-level determinants of medical male circumcision uptake for HIV prevention”, providing didactic and hands-on research training in social and behavioral sciences
2012.06	Summer Institute in Health, Behavior and Society Johns Hopkins University Bloomberg School of Public Health
2011.09	Workshop in Infectious Disease Epidemiology and Modeling Imperial College of London
2004-2008	PhD in Biostatistics School of Medicine Virginia Commonwealth University (VCU) Richmond, Virginia, USA
2002-2004	Completed two years of the three- year Master program in Probability and Mathematical Statistics before entering PhD program at VCU. Beijing University of Technology Beijing, China
1997-2002	BS in Applied Mathematics Beijing University of Technology Beijing, China

PROFESSIONAL EXPERIENCE

2017-Present	Assistant Professor Department of Biostatistics and Epidemiology School of Public Health and Health Sciences University of Massachusetts-Amherst
2015-Present	Associate Scientist Department of Epidemiology Joint appointment in the Department of Biostatistics Johns Hopkins Bloomberg School of Public Health

2011-2015 Assistant Scientist
 Department of Epidemiology
 Johns Hopkins Bloomberg School of Public Health

2010-2015 Assistant Scientist
 Joint appointment in the Department of Biostatistics
 Johns Hopkins Bloomberg School of Public Health

2009-2011 Assistant Scientist
 Department of Population, Family and Reproductive Health
 Johns Hopkins Bloomberg School of Public Health

2006-2008 Research Assistant
 Department of Biostatistics
 Virginia Commonwealth University

2005-2006 Statistical Intern at PR&D, Wyeth Consumer HealthCare
 Richmond, Virginia (work on-site 20 hours/week to provide statistical
 consultation for the company scientists).

2003-2004 Teaching Assistant in mathematic statistics
 Beijing University of Technology.

PROFESSIONAL ACTIVITIES

Society Membership

2007-Present Member, International Biometric Society - Eastern North American
 Region

2006-Present Member, American Statistical Association

2006-2007 Member, American Association for the Advancement of Science

2014-Present Member, the Association for Research in Vision and Ophthalmology

Consultations

2009-present Statistical Consultant for *Physical Therapy* (the Journal of the American Physical
 Therapy Association)

2013-present Statistical Advisor for *PLoS Medicine*

2014-present Statistical Consultant for Lyme Disease Research Foundation

Grant Review Activities

2011-present External reviewer, Research Grant Council (RGC) of Hong Kong

2014 July NIH Special Emphasis Panel: 2014/10 ZRG1 AARR-K (53) R.

Program Development Activities

2015 Organizer of Invited Paper Session “New Analytical Issues in Current Epidemiology
 Studies of HIV and Other Sexually Transmitted Infections”, Eastern North American Region
 (ENAR) Meeting.

EDITORIAL ACTIVITIES

Peer Reviewer for Journals

PLoS Medicine
Bioinformatics
American Journal of Epidemiology
Biotechnology Progress
Physical Therapy
Briefings in Bioinformatics
Sexually Transmitted Infections
International Journal of Infectious Diseases
PLoS One
Journal of Acquired Immune Deficiency Syndromes
Computational Statistics and Data Analysis
Statistics in Medicine
AIDS and Behavior
AIDS
Trials

Peer Reviewer for Book Proposals

John Wiley & Sons

HONORS AND AWARDS

Awards

2014	Conference on Retroviral and Opportunistic Infection (CROI) Travel Award, Center for AIDS Research, Johns Hopkins University
2014	International Research Scholars Program Award, Center for AIDS Research, Johns Hopkins University
2010	Statistics in Epidemiology Young Investigator Award, the American Statistical Association
2009	Faculty Grants Award in Global Health Research, Johns Hopkins University
2008	Graduate School Thesis/Dissertation Assistantship (merit based), Virginia Commonwealth University
2008	Most Excellent Paper Submission/Presentation Award, The 36 th Annual John C. Forbes Graduate Student Honors Colloquium, School of Medicine, Virginia Commonwealth University
2006	Nominated and Recognized for the AAAS/Science Program for Excellence in Science (one-year full membership in AAAS (American Association for the Advancement of Science) and subscription to the weekly journal Science)
2003	Excellent Postgraduate Student Fellowship, Beijing University of Technology
1998-2001	Outstanding Undergraduate Student Fellowship, Beijing University of Technology
2001	First-class Prize of the Mathematical Modeling Contest of National Undergraduates, Beijing
2001	Excellent Student Leader, Beijing University of Technology
2000	First-class Prize of the Mathematical Modeling Contest of National Undergraduates, Beijing
1999	Sony Scholarship of Beijing

Honors

2008	NESUG 2008 (NorthEast SAS User Group) Student Scholarship
2006	Biopharmaceutical Applied Statistics Symposium (BASS) XIII Fellow
2002	Honored "Excellent Graduate Student" of the City of Beijing

PUBLICATIONSJournal Articles (signifies peer review)

1. Kennedy RE., Kerns R T., **Kong X**, Archer K J., and Miles M F. "SScore: an R package for detecting differential gene expression without gene expression summaries". *Bioinformatics*, 2006, 22: P1272-1274.
2. **Kong X**, Mas VR and Archer KJ. "A non-parametric meta-analysis approach for combining independent microarray datasets: application using two microarray datasets pertaining to chronic allograft nephropathy". *BMC Genomics* 2008, 9:98.
3. Mas VR, Maluf DG, Archer KJ, Yanek K, **Kong X**, Kulik LM, Freise CE, Olthoff KM, Ghobrial RM, McIver P, Fisher RA. "Genes Involved in viral carcinogenesis and tumor initiation in HCV-induced HCC". *Molecular Medicine*, 2009 Mar-Apr;15(3-4):85-94.
4. Riddle DL, **Kong X**, Jiranek WA. "Two-year incidence and predictors of future knee arthroplasty in persons with symptomatic knee osteoarthritis: Preliminary analysis of longitudinal data from the osteoarthritis initiative." *Knee*, 2009 Dec;16(6):494-500..
5. Riddle DL, Wade JB, Jiranek WA, **Kong X**. "Preoperative Pain Catastrophizing Predicts Pain Outcome after Knee Arthroplasty." *Clinical Orthopedic Related Research*. 2010 Mar;468(3):798-806.
6. Riddle DL, Utzman RR, Jewell DV, Pearson S, **Kong X**, "Academic Difficulty and Program-Level Variables Predict Performance on the National Physical Therapy Examination for Licensure: A Population-Based Cohort Study". *Physical Therapy*. 2009 Nov;89(11):1182-91.
7. Gray RH, Serwadda D, Tobian AA, Chen MZ, Makumbi F, Suntoke T, Kigozi G, Nalugoda F, Iga B, Quinn TC, Moulton LH, Laeyendecker O, Reynolds SJ, **Kong X**, Wawer MJ, " Effects of genital ulcer disease and herpes simplex virus type 2 on the efficacy of male circumcision for HIV prevention: Analyses from the Rakai trials". *PLoS Med*. 2009 Nov;6(11):e1000187.
8. Serwadda D, Wawer M, Makumbi F, **Kong X**, Kigozi G, Gravitt PE., Watya S, Nalugoda F, Ssempijja V, Tobian A, Kiwanuka N, Moulton LH, Sewankambo NK., Reynolds SJ, Quinn TC; Iga B, Laeyendecker O, and Gray R H. "Circumcision of HIV-infected men: Effects on High Risk Human Papillomavirus Infections in a Randomized Trial in Rakai, Uganda". *Journal of Infectious Diseases*. 2010 May 15;201(10):1463-9.
9. Gray RH, Serwadda D, **Kong X**, Makumbi F, Kigozi G, Gravitt PE., Watya S , Nalugoda F, Ssempijja V, Tobian AR., Kiwanuka N, Moulton LH., Sewankambo NK., Reynolds S J, Quinn TC; Iga B, Laeyendecker O, and Wawer MJ. "Male circumcision decreases acquisition and increases clearance of high risk human papillomavirus in HIV-negative men: a randomized trial in Rakai, Uganda" *Journal of Infectious Diseases*. 2010 May 15;201(10):1455-62.

10. Redd AR., Eaton K, **Kong X**, Laeyendecker O, Lutalo T, Wawer MJ., Gray RH., Serwadda D., and Quinn TC. "C-reactive protein levels increase during HIV-1 disease progression in Rakai, Uganda despite the absence of microbial translocation" *J Acquired Immune Deficient Syndrome*. 2010 Aug 15;54(5):556-9.
11. **Kong X**, Gray RH, Moulton LH, Wawer M, and Wang M-C, "A modeling framework for the analysis of HPV incidence and persistence: a semi-parametric approach for clustered binary longitudinal data analysis". *Statistics in Medicine*. 2010 Dec 10;29(28):2880-9.
12. **Kong X**, Archer KJ, Moulton LH, Gray RH, and Wang M-C, "Parametric Frailty Models for Clustered Data with Arbitrary Censoring: Application to Effect of Male Circumcision on HPV Clearance". *BMC Medical Research Methodology*. 2010 May 6;10(1):40.
13. Conroy SA, Laeyendecker O, Redd AR, Collinson-Streng AN, **Kong X**, Makumbi F, Lutalo T, Sewankambo N, Kiwanuka N, Gray RH, Wawer MJ, Serwadda D, and Quinn TC. "Changes in the distribution of HIV-1 subtypes D and A in Rakai District, Uganda between 1994 and 2002" *AIDS Research and Human Retroviruses*. 2010 Oct;26(10):1087-91.
14. Johnson KE, Redd AD, Quinn TC, Collinson-Streng AN, Cornish T, **Kong X**, Sharma R, Tobian AA, Tsai B, Sherman ME, Kigozi G, Serwadda D, Wawer MJ, and Gray RH, "Effects of HIV-1 and HSV-2 infection on lymphocyte and dendritic cell density in adult foreskins from Rakai, Uganda". *Journal of Infectious Diseases*. 2011 Mar 1;203(5):602-9.
15. Wawer MJ, Tobian AR, Kigozi G, **Kong X**, Gravitt PE, Serwadda D, Nalugoda F, Makumbi F, Ssempiija V, Sewankambo N, Watya S, Eaton KP, Oliver AE, Chen MZ, Reynolds S, Quinn TC, and Gray RH. "Male Circumcision Reduces Human Papillomavirus Transmission to HIV-Negative Female Partners: A Randomized Trial in Rakai, Uganda". *The Lancet*. 2011 Jan 15;377(9761):209-18.
16. Tobian AR, **Kong X**, Gravitt PE, Eaton KP, Kigozi G, Serwadda D, Oliver AE, Nalugoda F, Makumbi F, Chen M, Wawer MJ, Quinn TC, and Gray RH, "Male Circumcision and Anatomic Sites of Penile Human Papillomavirus in Rakai, Uganda". *International Journal of Cancer*. 2011 Dec 15;129(12):2970-5.
17. Tobian AR, **Kong X**, Wawer MJ, Kigozi G, Gravitt PE, Serwadda D, Eaton KP, Nalugoda F, Quinn TC, and Gray RH. "Circumcision of HIV-Infected Men and Its Effect on Human Papillomavirus Transmission to Female Partners: A Randomized Trial in Rakai, Uganda." *Lancet Infect Dis*. 2011 Aug;11(8):604-12.
18. Riddle D, **Kong X**, and Jiranek WA, " Factors associated with rapid progression to knee arthroplasty: Complete analysis of three-year data from the osteoarthritis initiative. *Joint Bone Spine* (2011), 2012 May;79(3):298-303.
19. Riddle D, **Kong X**, and Fitzgerald, GK. "Psychological Health Impact on Two-Year Changes in Pain and Function in Persons with Knee Pain: Data from the Osteoarthritis Initiative". *Osteoarthritis and Cartilage*. 2011 Sep;19(9):1095-101.

20. Redd AD, Laeyendecker O, **Kong X**, Kiwanuka N, Lutalo T, Huang W, Gray RH, Wawer MJ, Serwadda S, Eshleman SH, and Quinn TC on behalf of the Rakai Health Sciences Program, "Efficiency of CCR5 coreceptor utilization by the HIV quasispecies increases over time, but is not associated with disease progression". *AIDS Research and Human Retroviruses*. 2012 Mar;28(3):289-94.
21. Galiwango RM, Susanna LL, Redd AD, Manucci J, Tobian AR, Sewankambo S, Kigozi G, Nakigozi G, Serwadda D, Boaz I, Nalugoda F, Sullivan DJ, **Kong X**, Wawer MJ, Gray RH, Quinn TC, and Laeyendecker O on behalf of the Rakai Health Sciences Program "HIV Type 1 Genetic Variation in Foreskin and Blood from Subjects in Rakai, Uganda" *AIDS Research and Human Retroviruses*. Volume 27, Number 00, 2011, DOI: 10.1089/aid.2011.0176
22. Gray R.H, Kigozi G, **Kong X**, Ssempiija V, Makumbi F, Watty S, Serwadda, D, Nalugoda F, Sewankambo NK, Wawer, MJ, "The effectiveness of male circumcision for HIV prevention and effects on risk behaviors in a post-trial follow up study in Rakai, Uganda." *AIDS*. 2012 Jan 4. 2012 Mar 13;26(5):609-15.
23. Tobian AR, Kigozi G, Redd AD, Serwadda D, **Kong X**, Oliver A, Nalugoda F, Quinn TC, Gray, RH, and Wawer MJ, "Male Circumcision and Herpes Simplex Virus Type 2 Infection in Female Partners: a Randomized Trial in Rakai, Uganda". *Journal of Infectious Diseases*. 2012 Mar 13;26(5):609-15.
24. **Kong X**, Kigozi G, Nalugoda F, Musoke R, Kagaayi J, Latkin C, Ssekubugu R, Lutalo T, Nantume B, Boaz I, Wawer M, Serwadda D, Gray R. "Risk behaviors changed but no risk compensation was found during 3-years of post-trial follow-up of male circumcision trial participants uncircumcised at trial closure in Rakai, Uganda". *American Journal of Epidemiology*, 2012 Nov 15;176(10):875-85.
25. Tobian AR, Kigozi G, Gravitt PE, Xiao C, Serwadda D, Kevin EP, **Kong X**, Wawer MJ, Nalugoda F, Quinn TC, and Gray RH, "Human papillomavirus incidence and clearance among HIV-positive and HIV-negative men in Rakai, Uganda". *AIDS*. 2012 Jul 31;26(12):1555-65.
26. Redd AD, Mullis CE, Serwadda D, **Kong X**, Martens C, Ricklefs SM, Tobian AAR, Xiao C, Grabowski MK, Nalugoda F, Kigozi G, Laeyendecker O, Kagaayi J, Sewankambo N, Gray RH, Porcella SF, Wawer MJ*, and Quinn TC*. "The rates of HIV-superinfection and primary HIV incidence in a general population in Rakai, Uganda", *Journal of Infectious Diseases*. 2012 Jul 15;206(2):267-74.
27. Redd AD, Collinson-Streng AN, Chatziandreou N, Mullis CE, Laeyendecker O, Martens C, Ricklefs S, Kiwanuka N, Nyein PH, Lutalo T, **Kong X**, Manucci J, Sewankambo N, Wawer MJ, Gray RH, Porcella SF, Fauci AS, Sagar M, Serwadda D, and Quinn TC. "Previously transmitted HIV-1 viral strains are preferentially selected during subsequent sexual transmissions", *Journal of Infectious Diseases*. 2012 Nov;206(9):1433-42.
28. Dinh MH., Hirbod T, Kigozi G, Okocha EA, Cianci GC, **Kong X**, Prodger J, Broliden K, Kaul R, Serwadda D, Wawer MJ., Gray RH., and Hope TJ. "No difference in keratin thickness between inner and outer foreskins from elective male circumcisions in Rakai, Uganda ". *Plos One*, 2012; 7(7): e41271.

29. **Kong X**, Ndyanabo A, Nalugoda F, Kigozi G, Ssekasanvu J, Serwadda D, Wawer M, and Gray R, "The accuracy of women's reports of their partner's male circumcision status in Rakai, Uganda". *AIDS*. 2013 Feb 20;27(4):662-4.
30. Nalugoda F, Wabwire-Mangen F, Bwanika JB, Makumbi F, Kigozi G, Nakigozi G, Kagaayi J, **Kong X**, Sewankambo N, Lutalo T, Guwatudde D, Gray R, Wawer M. "Marriage and the Risk of HIV infection in Rural Rakai, Uganda". *Journal of Acquired Immune Deficiency Syndromes*, 2014 Jan. 65(1) - p 91–98.
31. Lutolo T, Musoke R, **Kong X**, Makumbi F, Serwadda, D, Nalugoda F, Kigozi G, Sewankambo NK, Sekasanvu J, Wawer, MJ, Gray R.H, "Effects of Hormonal Contraceptive use on HIV acquisition and transmission among HIV-discordant couples in Rakai, Uganda", *AIDS* 2013, 27 (Suppl 1):S27–S34.
32. Cheon K, Thoma M, **Kong X**, Albert P, "A mixture of Markov models for heterogeneous longitudinal ordinal data: with applications to analyzing longitudinal Bacterial Vaginosis data". *Statistics in Medicine* 2014 Mar 27. doi: 10.1002/sim.6151. [Epub ahead of print].
33. **Kong X**, Ssekasanvu J, Kigozi G, Lutalo T, Nalugoda F, Serwadda D, Wawer M, and Gray R, "Male circumcision coverage, knowledge, and attitudes after 4-years of scale-up in Rakai, Uganda", *AIDS and Behavior* 2014 May;18(5):880-4.
34. Hirbod T, **Kong X**, Kigozi G, Serwadda D, Nalugoda F, Wawer M, Kaul R, Gray R, "HIV acquisition is associated with increased subpreputial antimicrobial peptides and reduced HIV neutralizing IgA in uncircumcised men from Rakai, Uganda.", *PLoS Pathogens*, 2014 Oct 2;10(10):e1004416. doi: 10.1371/journal.ppat.1004416.
35. Kaufman M, Massey M, Tsang S, Kamala B, Serlemitos E, **Kong X**, "An assessment of HIV testing in Tanzania to inform future campaigns", *AIDS Care*, 2014.963007 DOI:10.1080/09540121.
36. **Kong X**, Wang Mei-Cheng, and Gray R, "Analysis of longitudinal multivariate outcome data from couples: application to HPV transmission dynamics from couple cohort studies". *Journal of the American Statistical Association*. DOI: 10.1080/01621459.2014.991394 .
37. Riddle DL., Makowski M. and **Kong X**, "Knee Osteoarthritis Worsening Across the Disease Spectrum and Future Knee Symptoms and Function". *Arthritis Care & Research*, 2015 Jul 20. doi: 10.1002/acr.22654.
38. Wu ES., Oduyebo T, Cobb LP, **Kong X**, Cholakian D, Fader AN, Levinson K, Tanner E, Stone R, Grossman R, Roche KL. "Lymphopenia and its Association with Survival in Patients with Locally Advanced Cervical Cancer." *Gynecologic Oncology*, 2016 Jan;140(1):76-82. doi: 10.1016/j.ygyno.2015.11.013. Epub 2015 Nov 11.
39. Grabowski, K, **Kong X**, Gray R, Serwadda D, Kigozi G, Gravitt P, Nalugoda F, Reynolds S, Wawer M, Watya S, Quinn T, Tobian A. "Partner human papillomavirus viral load and incident

detection of human papillomavirus detection in heterosexual couples.” *Journal of Infectious Diseases*. 2015 Nov 23. pii: jiv541. [Epub ahead of print].

40. **Kong X**, Kigozi G, Ssekasanvu J, Nalugoda F, Nakigozi G, Ndyababo A, Lutalo T, Reynolds S, Ssekubugu R, Kagaayi J, Bugos E, Chang L, Pilgrim N, Grabowski M, Berman A, Quinn T, Serwadda D, Wawer M, and Gray R, “Association of Medical Male Circumcision and Antiretroviral Therapy Scale-up with Community HIV Incidence in Rakai, Uganda.”. *The Journal of the American Medical Association*. JAMA. 2016 Jul 12;316(2):182-90. doi: 10.1001/jama.2016.7292.

41. Kagaayi J, **Kong X**, Kigozi G, Ssekubugu R, Kigozi G, Nalugoda F, Serwadda D, Wawer M, and Gray R, “Self-selection of Male Circumcision Clients and Behaviors following Circumcision in a Service Program in Rakai, Uganda”, *AIDS*. 2016 May 19. PMID: 27203716.

42. **Kong X**, Strauss R, S West, H Scholl, “Visual acuity change in ProgStar study: a multi-center study on the natural history of the progression of atrophy secondary to Stargardt disease”. *Ophthalmology*. 2016 Jul 1. pii: S0161-6420(16)30388-8. doi: 10.1016/j.ophtha.2016.05.027.

43. Schönbach Em., Ibrahim MA., Strauss RW, Birch DG., Cideciyan AV., Hahn GA, Ho A, **Kong X**, Nasser F, Sunness JS, Zrenner E, Sadda SR, West SK, Ph.D.; Scholl HP, Fixation Location and Stability Using the MP1 Microperimeter in Stargardt Disease. Accepted. *Ophthalmology Retina*.

44. Prodger J, Shannon B, Gray R, Kigozi G, Reynolds SJ, **Kong X**, Galiwango R, Shahabi K, Wawer J, Serwadda D, Kaul R and the Rakai Genital Immunology Research Group. Chemokine levels in the penile coronal sulcus correlate with HIV-1 acquisition and are reduced by male circumcision in Rakai, Uganda.” Accepted. *PLOS Pathogens*

45. **Kong X**, Kigozi, G, Sekasanvu J, Nalugoda F, Serwadda D, Latkin C Gray R, and Wawer M “Medical male circumcision coverage from 2007 to 2014 in Rakai, Uganda” *AIDS*, in press.

46. Grabowski K, Gravitt PE, Gray RH, Serwadda D, Redd A, Kigozi G, **Kong X**, Nalugoda F, Wawer MJ, Quinn TC, Tobian AR. Trends and determinants of human papillomavirus concordance among HIV-positive and HIV-negative heterosexual couples in Rakai, Uganda. *Journal of Infectious Diseases*. Accepted.

47. Abassi M, Morawski BM, Nakigozi G, Nakasujja N, Kong X, Meya DB., Robertson K, Gray R, Wawer MJ., Sacktor N, Boulware DR. “Cerebrospinal fluid biomarkers and HIV-associated neurocognitive disorders in Rakai, Uganda” *Journal of NeuroVirology*. Accepted

Manuscripts submitted for peer review

Pilgrim N, **Kong X**, Alamillo N, Sekasanvu J, Lutalo T, Nalugoda F, Serwadda D, Gray R, and Wawer M, “Living arrangements and orphanhood among adolescents in Rakai, Uganda: An Age, Period and Cohort Analysis”, Submitted.

Schönbach Em., Wolfson Y, Strauss RW, Ibrahim MA., **Kong X**, Munoz B, Cideciyan AV., Hahn GA, Sunness JS, Sadda SR, West SK, Ph.D.; Scholl HP “Macular Sensitivity Measured with Fundus-Controlled Microperimetry in Stargardt” submitted.

Kong X, Strauss R, S West, Strauss RW, Munoz B, Cideciyan AV., Ho A, Ibrahim MA., Schönbach EM., Cheetham J, Ervin A, H Scholl, “Progression of Visual Acuity and Fundus Autofluorescence in Recent Onset Stargardt Disease: ProgStar Study Report #4” revision submitted.

Manuscripts in preparation

Kong X, Rebman A, Aucott J, “Demographic, clinical, laboratory, and psychosocial risk factors associated with treatment failure in early Lyme disease”. To be submitted to *Lancet Infectious Disease*.

Kong X, S Irvin, “Eyes diseases and vision loss in people living with HIV in Rakai, Uganda”

Biswas R, **Kong X**, “Non-parametric functional data analysis in characterizing bacterial vaginosis (BV) infection patterns”

CURRICULUM VITAE
Xiangrong Kong
PART II

TEACHING

Classroom Instruction

JHU

- 2010 Summer BIOS140.606 - Survival Analysis (2 credits, 27 students)
 2011 Summer BIOS140.606 - Survival Analysis (2 credits, 23 students)
 2012 Summer BIOS140.606 - Survival Analysis (2 credits, 15 students)
 2012 Summer BIOS140.613 – Data Analysis Workshop I (2 credits, 19 students)
 2012 Summer BIOS140.614 – Data Analysis Workshop II (2 credits, 19 students)
 2013 Winter BIOS140.613 – Data Analysis Workshop I (2 credits, 50 students)
 2013 Winter BIOS140.614 – Data Analysis Workshop II (2 credits, 40 students)
 2013 Winter BIOS140.620-Advanced Data Analysis (2 credits, 19 students)
 2014 Winter BIOS140.613 – Data Analysis Workshop I (2 credits, 40 students)
 2014 Winter BIOS140.614 – Data Analysis Workshop II (2 credits, 40 students)
 2014 Summer BIOS140.606 - Survival Analysis (2 credits, 21 students)
 2015 Spring EPI340.694 (new course. online) – Power and Sample Size Calculation for the Design of Epidemiological Studies (1 credit, 103 students).
 2015 Summer EPI340.694 (online) – Power and Sample Size Calculation for the Design of Epidemiological Studies (1 credit, 35 students).
 2015 Summer BIOS140.606 - Survival Analysis (2 credits, 19 students)
 2016 Spring EPI340.694 – Power and Sample Size Calculation for the Design of Epidemiological Studies (1 credit, 87 students)
 2016 Summer BIOS140.606 - Survival Analysis (2 credits)

UMass

- 2017 Spring BIOS650 Applied Regression Modeling

Master Student Thesis Advisor

Yang Bai, Department of Biostatistics (2015)

Master Student Academic Advisor

Shiyin Jiao, Department of Epidemiology (ongoing)

MPH Capstone Project Advisor or Practicum Preceptor

Oduyebo, Titilope (2014)

Mbabali, Ismail (2015)

School-wide Oral Examinations Committee Member

Chang, Cheng-Chua (Paul), MD, PhD candidate, Health Policy & Management (2013)

Shen, Vivien, PhD candidate, Health Policy & Management (2015)

Wu, Linda, PhD candidate, Health Policy & Management (2016)

Tsai, Shin-Yi (Alice), PhD candidate, Health Policy & Management (2016)

Yen, Wu-Kuo (Vicky), PhD candidate, Health Policy & Management (2016)

Yen, Chia-Chi (Jacky), PhD candidate, Health Policy & Management (2016)

Kuo, Han Chin (Hank), PhD candidate, Health Policy & Management (2016)

He, Yuan-Je (John), PhD candidate, Health Policy & Management (2016)
 Lu, Paul, PhD candidate, Health Policy & Management (2016)

Final Oral Examinations/Thesis Reader

En-Hui Pai (Grace), PhD, Health Policy & Management (2012)
 Chang, Cheng-Chua (Paul), MD, PhD, Health Policy & Management (2014)
 Lu, An-Chi, PhD, Health Policy & Management (2015)
 Liang, Hailun, Health Policy & Management (2016)
 Shen, Vivien, PhD, Health Policy & Management (2016)

Master Student Thesis Reader

Po-Han Chen, MHS, Biostatistics (2011)

Faculty Mentor for the JHU Global Health Established Field Placements (GHEFP)

Stephanie Irvin, BS candidate (2015)

Statistical Mentorship

PhD student 2011-2013: Jennifer Wagman, PhD, Population, Family and Reproductive Health (2013), NIAID Fellowship, 1F31 MH095649-01A1
 Visiting students in 2012-2013: Jess Prodder and Brett Shannon, PhD (2013), Department of Clinical Sciences, University of Toronto
 Statistical intern in 2014: Rahul Biswas, BS (2014), Indian Statistics Institute
 Statistical intern in 2015: Samriddha Lahiry, BS (2015), Indian Statistics Institute

Other Significant Teaching

- 2008 Invited 3-hour guest lecture on Analysis of Variance for course PubH 249 “Use of Statistical Packages for Data Management and Data Analysis” at the Department of Epidemiology and Biostatistics in the School of Public Health and Health Services at the George Washington University.
- 2008 Tutoring senior Biostatistics PhD students in the department for their written comprehensive exam which covers Survival Analysis, Advanced Inference, Categorical Data Analysis, and Mixed-effect Model.
 Department of Biostatistics
 Virginia Commonwealth University
- 2007 Introduction of LASSO in Linear Model (invited lecture for course BIOS667: Advanced Data Analysis)
 Department of Biostatistics
 Virginia Commonwealth University

RESEARCH GRANT PARTICIPATION

Active Grants

“Multi-level predictors of male circumcision uptake in Rakai, Uganda” 01/01/2015-12/31/2015, no cost extension to 12/31/2016.
 Funding Agency: Center for AIDS Research (CFAR), Johns Hopkins University
 Funding Level: \$20,000

Using data from the Rakai Community Cohort Study and the MC service program, to identify individual, interpersonal and community level determinants of male circumcision uptake to inform subsequent intervention development promoting MC adoption.

Role: Principal Investigator.

1K25AI114461-01A1, 06/01/2014-05/31/2018 NIAID

Identifying and interpreting determinants of male circumcision uptake, Rakai, Uganda

Building on the PI's existing expertise in quantitative science, to obtain further training in behavioral sciences to promote health seeking behaviors.

Role: Principal Investigator (75% effort).

Private Award (Scholl) 01/01/2013-12/31/2016 Clark Charitable Foundation

LUtein for Vision Improvement in Albinism (LUVIA) Study Interventional, placebo-controlled trial using lutein in Ocular Albinism

Role: Biostatistician (25% effort).

R01 MH099733 (Wawer, Maria) 12/01/2012-11/30/2017 NIH

Neurologic sequel of HIV subtype A and D infection and ART, Rakai, Uganda

To examine the associations between HIV viral subtype and degree of immunosuppression and the severity of neurocognitive/psychiatric morbidity.

Role: Co-Investigator, Biostatistician (Effort contributing)

5U2GGH000817-2 CDC Cooperative Agreement Serwadda (PI) 9/30/2013-9/30/2017
Provision of Comprehensive HIV/AIDS Services and Developing National Capacity, with nested Combined Prevention Impact Evaluation.

PEPFAR support for ART, safe male circumcision, counseling and testing, health education and condoms; plus annula support for community-based surveillance to assess Combined Prevention coverage and effects.

Role: Co- Investigator /Biostatistician. (Effort contributing).

U01AI100031 (Gray, Ronald H) 6/2012-5/2015 NIH, no cost extension

Expanded Male Circumcision for HIV Prevention, Implementation Science.

Grant objective: to test novel methods of delivery of adult and infant male circumcision for HIV prevention.

Role: Co-Investigator, Biostatistician. (Effort contributing)

Completed Grants

"Community level effects of male circumcision (MC) on HIV epidemic with nested MC-related Clinical and Basic Sciences Research"

Dates: 11/01/08-03/31/2014

Funding Agency: Bill and Melinda Gates Foundation

Principal Investigator: Wawer, Maria

This multidisciplinary program will provide crucial information on the effectiveness of MC for HIV prevention, help define guidelines for MC provision in both HIV-uninfected and infected men, and will generate new knowledge and insights for the future development of microbicides and mucosal HIV vaccines.

Role: Biostatistician

"Male circumcision, risk compensation and the role of intensive health education and VCT on HIV prevention in Rakai, Uganda"

Dates: 02/01/2010-12/31/2011

Funding Agency: Johns Hopkins University Center for Global Health

Funding Level: \$50,000

The male circumcision (MC) trials and the ongoing post-trial surveillance conducted in Rakai, Uganda by the Rakai Health Sciences Program (RHSP) provide us the unique opportunity to assess sexual behavior changes among men both during and after the MC trial, and allow us to evaluate the effects of intensity of preventive education that should accompany MC services. In addition, we will also assess the importance of voluntary counseling and testing (VCT) uptake in preventing risk compensation following MC. This study will focus on HIV-negative men and will provide critical information about MC's impact on men's sexual behaviors and the roles of intensive health education and VCT uptake for prevention of behavioral disinhibition.

Role: Principal Investigator

R01 AI087409-01A1 "Genital anaerobes, inflammation and HIV risk; Rakai"

Dates: 07/01/2010-06/30/2013

Funding Agency: NIAID

Principal Investigator: Gray, Ronald

Major goal of the study is to determine whether genital microbiota are shared with sexual partners, and assess association between penile pro-inflammatory anaerobes and foreskin inflammation. Assess the MC effects on male and female partner genital microbiota using genital swabs collected during follow-up trial and determine the association between pro-inflammatory genital microbiota and HIV acquisition using a case-control analysis of male or female seroconverters and HIV-uninfected controls.

Role: Co-Investigator, Biostatistician

U01 AI075115-S2 (Gray, Ron) 09/01/2011-08/31/2013 NIH/NIAID

"Circumcision: HIV/STIs and behavioral effects in a RCT and Post RCT Surveillance, Rakai, Uganda Acceptability and Safety of PrePex Devices for Male Circumcision"

Conduct a non-randomized study to assess the acceptability and safety of the PrePex device in 250 men compared with dorsal slit MC.

Role: Co-Investigator, Biostatistician

U01-AI075115-01A1 "Circumcision: HIV/STIs and behavioral effects in a RCT and Post RCT Surveillance, Rakai, Uganda"

Dates: 09/01/07-08/31/2012

Funding Agency: NIH/NIAID

Principal Investigator: Gray, Ron

Post-trial follow up of circumcision clinical trial participants to assess circumcision effectiveness and sexual risk behaviors. To assess the efficacy for HSV-2 and HPV prevention using samples collected during the trial of "Male Circumcision for HIV Preventions".

Role: Co-Investigator, Biostatistician

U01 AI075115 04S1 (Gray, Ron) 09/15/2010-08/31/2012, NIH/NIAID

"Circumcision: HIV/STIs and behavioral effects in a RCT and Post RCT Surveillance, Rakai, Uganda Acceptability and Safety of Shang Ring Circumcision"

Major goal is to conduct a non-randomized study to assess the acceptability and safety of the Shang ring in 250 men compared with dorsal slit MC.

Role: Co-Investigator, Biostatistician

3U01-AI075115-03S1 " Circumcision: HIV/STIs and behavioral effects in a RCT and Post RCT Surveillance, Rakai, Uganda - HPV Supplement"

Dates: 09/22/2009-08/31/2011

Funding Agency: NIH/NIAID

Principal Investigator: Gray, Ronald H.

Major goal of this project is to assess the efficacy of male circumcision for HR-HPV prevention in HIV- negative and positive men and to determine prevalence, incidence and clearance of HPV, to assess the efficacy of circumcision for reduction of genital HR-HPV infection in female partners of HIV-infected and un-infected male trial participants.

Role: Co-Investigator

R01 HD 050180 "ARV Effects on HIV Epidemiology, Behaviors and the Community, Rakai Uganda"

Dates: 6/1/2005-5/31/2010

Funding Agency: NICHD

Principal Investigator: Wawer, Maria

To assess community level HIV prevalence, incidence, emergence and transmission of drug resistant quasispecies, identify novel drug-resistance mutations, monitor sexual and other risk behaviors among HIV+ and HIV-negative community members, determine the effects of ARVs on HIV-related stigma, and the effects of stigma on VCT and ARV acceptance, in 50 villages in Rakai Uganda.

Role: Biostatistician**ACADEMIC SERVICE**

2015-2017 Comprehensive exam committee, Department of Epidemiology

2016 Ad-hoc Appointment & Promotion Committee, Bloomberg School of Public Health

PRESENTATIONSInvited Seminars

Kong X. "Mixture DOE- A Scientific Approach for PR&D Studies", June, 2006, *PR&D, Wyeth Consumer Health Care*, Richmond, Virginia.

Kong X "A non-parametric meta-analysis approach for combining independent microarray datasets: application using two microarray datasets pertaining to chronic allograft nephropathy". Jun, 2008. The George Washington University. Washington D.C.

Kong X "Introduction of Mixture Design of Experiment" Nov, 2008. Virginia Commonwealth University, Richmond, Virginia.

Kong X "Variable Selection using L1 Penalized Cox Models" Dec. 2008. Northwestern University, Chicago, Illinois.

Kong X "Join Modeling of HPV Incidence and Persistence: A semi-parametric model for clustered longitudinal binary data" Jan, 2010. Survival, Longitudinal and Multivariate Data Working Group, Johns Hopkins University, Baltimore, MD.

Kong X "Risk compensation with male circumcision: causation or association" Apr, 2012. Causal Inference Working Group, Johns Hopkins University, Baltimore, MD.

Kong X "Statistical research in open cohort studies" Sep, 2012. Survival, Longitudinal and Multivariate Data Working Group, Johns Hopkins University, Baltimore, MD.

Kong X "Risk compensation with male circumcision: causation or association" Dec 2013. Intramural Research Program, National Institute of Aging, Baltimore, MD.

Kong X "Risk compensation with male circumcision: causation or association" Dec 2013. School of Nursing, University of Alabama. Birmingham, AB.

Kong X "A semi-parametric model for clustered longitudinal binary data" Jan, 2014. Department of Biostatistics, Jiann-Ping Hsu College of Public Health, Georgia Southern University, Statesboro, GA.

Kong X "Analysis of longitudinal multi-outcome data from couples-application to study HPV transmission" April, 2014. Survival, Longitudinal and Multivariate Data Working Group, Johns Hopkins University, Baltimore, MD.

Kong X "Analysis of longitudinal multi-outcome data from couples-application to study HPV transmission" July, 2014. Department of Biostatistics, Virginia Commonwealth University, Richmond, VA.

Kong X "Analysis of longitudinal multi-outcome data from couples-application to study HPV transmission" Dec, 2014. Department of Epidemiology and Biostatistics, George Washington University, Washington D.C.

Kong X "Analysis of longitudinal multi-outcome data from couples-application to study HPV transmission", Invited Session, International Biometric Society Eastern North American Region Meeting (ENAR), Mar 15-18, 2015, Miami, FL.

Kong X "Analysis of longitudinal multi-outcome data from couples-application to study HPV transmission", Apr 3. Department of Epidemiology, Johns Hopkins University, Baltimore, MD.

Kong X "Analysis of longitudinal multi-outcome data from couples-application to study HPV transmission", Division of Cancer Epidemiology & Genetics, National Cancer Institute. May 21, 2015, Gaithersburg, MD.

Kong X "Analysis of longitudinal multi-outcome data from couples-application to study HPV transmission", Jiann-Ping Hsu invited Session on Biostatistical and Regulatory Sciences at the Joint 24th ICSA Applied Statistics Symposium and 13th Graybill conference, June 14-17, 2015, Fort Collins, CO.

Kong X "Analysis of longitudinal multi-outcome data from couples-application to study HPV transmission", Data Analysis Group seminar, National Center for Health Statistics, Oct 27, 2015, Hyattsville, MD.

Kong X “Medical Male Circumcision Scale-up and Its Impact on Community HIV Incidence in Rakai, Uganda.”, Johns Hopkins Center for AIDS Research Annual Meeting, 2016. Baltimore, MD.

Scientific Meetings

Kong X, Archer KJ. “Application of Discrimination Methods on Gene Expression Data of Kidney Transplant Patients”. May, 2007, The 35th Annual John C. Forbes Graduate Student Honors Colloquium, School of Medicine, Virginia Commonwealth University, Richmond, Virginia.

Kong X, Archer KJ. “Application of Discrimination Methods on Gene Expression Data of Kidney Transplant Patients”. Jul, 2007, Joint Statistical Meetings. Salt Lake City, Utah.

Mas VR, Maluf DG, Archer KJ, Yanek K, **Kong X**, Fisher RA. “Genes involved in viral carcinogenesis and tumor initiation in patients with HCV-associated hepatocellular carcinoma”. 2008 *American Transplant Congress*, Toronto, Canada. *American Journal of Transplantation*, 8(Suppl. 2):197, 2008.

Mas VR, Maluf DG, Archer KJ, Yanek K, Levesque S, **Kong X**, Stravitz RT, Fisher RA. “Gene expression patterns in acute cellular rejection and hepatitis C recurrence post-liver transplantation”. 2008 *American Transplant Congress*, Toronto, Canada. *American Journal of Transplantation*, 8(Suppl. 2):384, 2008.

Kong X, Archer KJ, Mas V. “A non-parametric meta-analysis approach for combining independent microarray datasets: application using two microarray datasets pertaining to chronic allograft nephropathy”. March, 2008, International Biometric Society Eastern North American Region Meeting, Washington, D.C.

Kong X, Archer KJ. “Variable Selection in Competing Risks Using the L_1 -Penalized Cox Model”. May, 2008, The 36th Annual John C. Forbes Graduate Student Honors Colloquium, School of Medicine, Virginia Commonwealth University, Richmond, Virginia.

Kong X, Archer KJ. “Variable Selection in Competing Risks Using the L_1 -Penalized Cox Model”. Aug, 2009. The 2009 Joint Statistical Meetings, Washington D.C.

Riddle DL., **Kong X**, "Prognosing Future Knee Arthroplasty: Analysis of 2 Year Data from the Osteoarthritis Initiative". Oct, 2009 World Congress on Osteoarthritis, Montreal, Canada.

Redd A, Johnson K, Quinn T, Collinson-Streng A, Cornish T, **Kong X**, Kigozi G, Serwadda D, Wawer M, Gray R. "The effect of HIV-1 and HSV-2 infection on dendritic and lymphocytic infiltration in adult foreskin tissue". 17th Conference on Retroviruses and Opportunistic Infections, Feb, 2010. San Francisco, CA.

Collinson-Streng A, Laeyendecker O, **Kong X**, Redd A, Serwadda D, Lamers S, Conroy S, Gray R, Wawer M, Quinn T. "Increase in Inter and Intra Viral Diversity at a Population Level in Uganda from 1994 to 2002". 17th Conference on Retroviruses and Opportunistic Infections, Feb, 2010. San Francisco, CA.

Gray RH, Serwadda D, **Kong X**, Makumbi F, Kigozi G, Gravitt PE, Watya S, Nalugoda F, VSsempijja, AA, R.Noah T, Moulton LH., Sewankambo NK., Reynolds SJ, Quinn TC; Iga B,

Laeyendecker O, Oliver AE., and Wawer MJ. "A randomized trial of male circumcision and high risk human papillomavirus in HIV-infected and uninfected men". 17th Conference on Retroviruses and Opportunistic Infections, Feb, 2010. San Francisco, CA.

Tobian A, Gravitt P, Gray R, Kigozi G, **Kong X**, Quinn T, Serwadda D, Watya S, Wawer M, "Male Circumcision Reduces HPV Infection in Female Partners in Rakai, Uganda". 26th International Papillomavirus Conference. Jul, 2010, Montreal, Canada.

Kong X, "A modeling framework for the analysis of HPV incidence and persistence", Aug, 2010, The 2010 Joint Statistical Meetings, Vancouver, Canada.

Riddle D, **Kong X**, and Fitzgerald GK, "Using OAI clinical data to study the prognostic role of mental health". Plenary abstract. Sep, 2010 World Congress on Osteoarthritis, Brussels, Belgium.

Kong X, Kigozi G, Ssempija V, Nalugoda F, Makumbi F, Lutalo T, Watya S, Serwadda D, Eaton K, Quinn T, Wawer MJ, and Gray RH, " Longer-term Effects of Male Circumcision on HIV Incidence and Risk Behaviors during Post-trial Surveillance in Rakai, Uganda". Oral abstract. 18th Conference on Retroviruses and Opportunistic Infections, Feb, 2011. Boston, MA.

Redd A, Collinson-Streng A, Laeyendecker O, Kiwanuka N, **Kong X**, Manucci J, Sewankambo NK., Wawer MJ, Gray R, and Quinn T. "Previously transmitted HIV-1 viral strains are preferentially selected for during subsequent sexual transmissions". Oral abstract. 18th Conference on Retroviruses and Opportunistic Infections, Feb, 2011. Boston, MA.

Tobian AA, **Kong X**, Wawer MJ, Kigozi G, Gravitt P, Serwadda D, Eaton K, Nalugoda F, Quinn T, and Gray RH, "The Effect of Circumcision of HIV-Infected Men on Human Papillomavirus Transmission to Female Partners: A Randomized Trial in Rakai, Uganda". 18th Conference on Retroviruses and Opportunistic Infections, Feb, 2011. Boston, MA.

Kong X, "A modeling framework for the analysis of HPV incidence and persistence", March, 2011, International Biometric Society Eastern North American Region Meeting, Miami, Fl.

Gray RH, Kigozi G, Serwadda D, **Kong X**, Nalugoda F, Makumbi F, Kagaayi J, Lutalo T, Watya S, Wawer MJ. "Population-level Impact of Male Circumcision on HIV Incidence in Rakai, Uganda". Oral Abstract. 19th Conference on Retroviruses and Opportunistic Infections (CROI), Mar, 2012. Seattle, MA.

Wawer MJ, Serwadda D, **Kong X**, Nalugoda F, Kigozi G, Makumbi F, Kagaayi J, Lutalo T, Ssempija V, Gray RH "Trends in HIV incidence and behavior in Rakai, Uganda-a population based study 1994-2010". Oral Abstract. 19th Conference on Retroviruses and Opportunistic Infections (CROI), Mar, 2012. Seattle, MA.

Kong X, "An Analytical Framework for HPV Transmission using Longitudinal Data on Couples", March, 2012, International Biometric Society Eastern North American Region Meeting, Washington DC.

Kong X, Ndyanabo A, Kigozi G, Nalugoda F, Serwadda D, Wawer M and Gray R, "Male Circumcision Coverage by Risk Profiles in Rakai, Uganda". Oral Theme Discussion and Poster

Abstract, the 20th Conference on Retroviruses and Opportunistic Infections (CROI), Mar, 2013. Atlanta, GA.

Ndyanabo A, Makumbi F, Nakigozi G, Serwadda D, Reynolds SJ, Chang L, Grabowski M, Wawer M, Gray, R, **Kong X**, “Measures of ART Adherence Associated with Virological Failure in Rakai, Uganda”, Poster Abstract accepted by the 21st Conference on Retroviruses and Opportunistic Infections (CROI), Mar, 2014. Boston, MA.

Prodger J, Shahabi K, **Kong, X**, Kigozi G, Kighoma N, Reynolds S, Serwada D, Sewank N, Wawer M, Gray R, Kaul R, “Association of foreskin pro-inflammatory chemokines with HIV acquisition in Rakai, Uganda”. 20th International AIDS Conference, July, 2014, Melbourne, Australia.

Sacktor N, Saylor D, Nakigozi G, Nakasujja N, **Kong X**, Robertson K, Gray R, Wawer M, “High frequency of dementia in antiretroviral naïve HIV+ individuals in rural Uganda”, Poster Abstract, the 22th Conference on Retroviruses and Opportunistic Infections (CROI), Feb, 2015. Seattle, Washington, USA.

Kagaayi J, **Kong X**, Kigozi G, Nalugoda F, Reynolds S, Serwadda D, Sewankambo N, Wawer M, Gray R, “Self-selection of Circumcision Acceptors, Risk compensation and Effectiveness of Circumcision among Service Recipients, Rakai Uganda”, Poster and Themed Discussion. 22th Conference on Retroviruses and Opportunistic Infections (CROI), Feb, 2015. Seattle, Washington, USA.

Saylor D, Nakigozi G, Nakasujja N, **Kong X**, Robertson K, Gray R, Wawer M, Sacktor N, “Peripheral Neuropathy is Common and Associated with Functional Impairment in HIV+ and HIV- Individuals in Rural Uganda”, Poster Abstract, the 22th Conference on Retroviruses and Opportunistic Infections (CROI), Feb, 2015. Seattle, Washington, USA.

Kong X, Kigozi G, Nalugoda F, Serwadda D, Wawer M, Gray R, “Impact of male circumcision scale up on community level HIV incidence in Rakai, Uganda”, Oral Presentation. 22th Conference on Retroviruses and Opportunistic Infections (CROI), Feb, 2015. Seattle, Washington, USA.

Abassi M, Nakigozi G, Nakasujja N, **Kong X**, Meya D, Robertson K, Gray R, Wawer M, Sacktor N, Boulware D “Cerebrospinal Fluid Cytokines and HIV Associated Neurocognitive Disorders in Uganda”, Poster Abstract, the 22th Conference on Retroviruses and Opportunistic Infections (CROI), Feb, 2015. Seattle, Washington, USA.

Ervin A, Munoz BE, Strauss RW, Wolfson Y, **Kong X**, West SK, Scholl HP for the ProgStar Research Group. “The Natural History of the Progression of Atrophy Secondary to Stargardt Disease (ProgStar) Studies: Baseline demographics and ocular characteristics”. Poster presentation, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO); May 2015 ; Denver, CO.

Ibrahim M, Strauss RW, Wolfson Y, **Kong X**, Munoz, BE, Ho A, Satta SR, West SK, Scholl HP for the ProgStar Research Group. “Assessment of macular function with microperimetry (MP1) in patients with Stargardt disease”. Oral presentation, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO); May 2015 ; Denver, CO.

Kong X, Strauss RW, Munoz BE, Wolfson Y, Ervin AM, Sadda S, West SK, Scholl HP for the ProgStar Research Group. “The Natural History of the Progression of Atrophy Secondary to Stargardt Disease (ProgStar) Study: Associations between fundus autofluorescence and microperimetry at baseline of the prospective study”. Oral presentation, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO); May 2015; Denver, CO.

Munoz BE, **Kong X**, Strauss RW, Wolfson Y, Ervin AM, West, SK, Scholl HP for the ProgStar Research Group. “Visual acuity loss in the retrospective Natural History of the Progression of Atrophy Secondary to Stargardt Disease (ProgStar-1) Study” . Oral presentation, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO); May 2015 ; Denver, CO.

Shah SM, **Kong X**, Ho A, Sadda SR, Munoz B, Strauss, RW, Ibrahim M, Wolfson Y, West SK, Scholl HP for the ProgStar Research Group. “Fundus autofluorescence characteristics in the Natural History of the Progression of Atrophy Secondary to Stargardt Disease (PROGSTAR) Study”. Oral presentation, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO); May 2015 ; Denver, CO.

Strauss RW, Munoz BE, Ho A, Wolfson Y, Sadda S, **Kong X**, West SK, Scholl HP for the ProgStar Research Group. “The Natural History of the Progression of Atrophy Secondary to Stargardt Disease Studies (ProgStar): Yearly progression rate of atrophic lesions in the retrospective study”. Oral presentation, Annual Meeting of the Association for Research in Vision and Ophthalmology (ARVO); May 2015 ; Denver, CO.

Kong X, Strauss R, Munoz B, West S, Scholl H. “Frailty models for clustered data with arbitrary censoring: Application to prognosis of visual impairment in patients with Stargardt disease”. 26th Annual Wilmer Research Meeting; Mar, 2015; Baltimore, MD.

Kong X, Kigozi G, Nalugoda F, Steven Reynold, Serwadda D, Wawer M, Gray R, “Impact of ART coverage and male circumcision on HIV acquisition in Rakai, Uganda”, accepted for Oral Presentation. 23rd Conference on Retroviruses and Opportunistic Infections (CROI), Feb, 2016. Boston, MA.

Cepeda JA, Thomas DL, Astemborski J, **Kong X**, Kirk GD, Mehta SH, “Liver Disease Progression in a Community-based Sample of HCV-infected PWID”. Poster Presentation. 23rd Conference on Retroviruses and Opportunistic Infections (CROI), Feb, 2016. Boston, MA.

Kong X, Kigozi G, Nalugoda F, Ssekasanvu J, Latkin C, Chang L, Serwadda D, Wawer M, Gray R. “Medical male circumcision coverage from 2007 to 2014 in Rakai, Uganda. AIDS 2016, Jul, 2016. Durban, South Africa.

ADDITIONAL INFORMATION

Keywords (for sorting)

Longitudinal data analysis, correlated data analysis, functional data analysis, causal inference, male circumcision, risk compensation, HIV/AIDS, sexually transmitted diseases, HPV transmission, couple cohort, lyme disease, ophthalmology, osteoarthritis, physical therapy.