

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
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NAME Tucker, Joseph David		POSITION TITLE Assistant Professor of Medicine, Director of UNC Project China	
eRA COMMONS USER NAME jtucker4			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Swarthmore College	B.A. cum laude	05/00	Biology
University of North Carolina at Chapel Hill	M.D.	12/04	Medicine
University of California San Francisco	Residency	06/07	Internal Medicine
Harvard University	Fellowship	06/09	Infectious Diseases
Harvard University	M.A.	12/10	RSEA: China Studies
London School of Hygiene & Trop. Medicine	PhD	01/14	Public Health

A. Personal Statement

My research examines the unintended and intended consequences of organized public health HIV/STD action. Public health programs like forced detention and incarceration of sex workers may further marginalize this vulnerable group, increasing sexual risk behaviors and distancing vulnerable women from necessary services. All novel disease control measures may have unintended consequences that directly influence their ultimate success or failure. Much of my fieldwork has focused on China because of the pronounced resurgence of syphilis and other STDs in addition to a strong capacity for coordinated public health responses. My team's ongoing research investigates the social science and ethics of curing HIV (PI, NIAID 1R01A108366-01), social entrepreneurship for sexual health (PI, FIC 1K01TW008200-01A1), the health of African migrants in Guangzhou (Mentor, FIC 5R25TW009340), and trust in patient-physician relationships (Harvard China Fund). Our collaborative research brings together US trainees (Fogarty, Fulbright, Doris Duke) and Chinese trainees (PI, 1D43TW009532-01) to work on joint sexual health research. Our project on the social roots of syphilis in China (*NEJM* 362:1658-1661) helped catalyze policy change. I am an Associate at the Harvard Asia Center and a Term Member of the Council on Foreign Relations. Since 2008 I have worked with the Guangdong Provincial STD Control Center, the provincial authority responsible for STD control and prevention, to form a UNC-South China STI Research Center.

B. Positions and Honors

Research Positions:

1999 Visiting Scholar, WHO Collaborating Center on Food Virology, with Dr. Dean Cliver, University of California Davis, Davis, CA

2000 Boren Scholar, Institute for International Education National Security Education Program, Qingdao Provincial Centers for Disease Control, Qingdao, PRC

2001 Chinese I-powerment Project Coordinator, with Myron Cohen (UNC), China Centers for Disease Control, Beijing, PRC

2003-2004 Program Manager, China National STD Center, with Dr. Myron Cohen (UNC) and Dr. Xiang-Sheng Chen (NCSTD), Nanjing, PRC

2005 Advisor, China CIPRA Epidemiology and Project Management Divisions

2008 – 2010 Fellow, Fogarty International Center Clinical Research Program

2010 – 2012 Instructor/Assistant, Harvard Medical School/Massachusetts General Hospital

2010 – Associate, Harvard Asia Center

2011 – Adjunct Assistant Professor, Chinese University Hong Kong Faculty of Medicine

2012 – Assistant Professor (tenure-track) and Director of UNC Project – China, UNC Chapel Hill

2013 - Co-Director, UNC-South China STI Research Training Center, Guangzhou, China

Other Experience and Professional Memberships

2001 – 2003 Contributing Editor, *Chinese Journal of Sexually Transmitted Infections*, Shenzhen, PRC

2004 International Secretariat Chair, Second China National STI Control Conference, Nanjing, PRC
 2004 – 2006 Ethics Editor, *Chinese Journal of Sexually Transmitted Infections*, Shenzhen, PRC
 2004 – 2010 Member, Syphilis in China National Working Group, NCSTD, Nanjing, China
 2005 – 2007 Founder and Member, Bay Area China AIDS Society, San Francisco, CA
 2005 – 2007 Public Intellectual Fellow, National Committee on US-China Relations
 2005 – 2009 Co-founder, Gender Policy and HIV in China Working Group, Beijing, PRC
 2006 - Editorial Board Member, *Sexually Transmitted Diseases* and *BMC Infectious Diseases*
 2008 – 2010 Founder and member, Massachusetts General Hospital Syphilis Working Group
 2008 - 2010 Founder and steering committee member, Sex Work in Asia Conference at Harvard University (October 1st-2nd, 2010)
 2009 - WHO Diagnostics Committee Member (Chair – Rosanna Peeling)
 2010 Hong Kong Research Grants Council, External Reviewer
 2010 Technical Advisor, WHO Rapid Syphilis Project
 2010 – Associate Editor and Editorial Board Member, *BMC Infectious Diseases*
 2011 NIH Fogarty Center Fellowship Selection Committee, NIH Fogarty Scholar Selection Committee
 2012-2013 World Health Organization HIV Guideline Contributor, Geneva, Switzerland
 2013- *PLoS ONE* Academic Editor
 2013- Member, International AIDS Society HIV Cure Psychosocial Working Group
 2013- Ad hoc NIH reviewer, GID ZRG1 IDM-U (56) 11/1/2013
 Ad-hoc reviewer for *New England Journal of Medicine*; *PLoS Medicine*; *Lancet Infectious Diseases*; *Journal of Infectious Disease*; *Clinical Infectious Disease*; *American Journal of Public Health*; *AIDS and Behavior*; *BMC Public Health*; *Social Science & Medicine*; *Culture, Health & Sexuality*

Honors

1996-2000 Swarthmore College Merit Scholarship
 2000 Leo Leva Award for “unusual promise” in Biology, Swarthmore College
 2000 Cum Laude graduate of Swarthmore College
 2003-2004 Kenan Scholar, UNC Chapel Hill School of Medicine
 2009-2010 Foreign Language Areas Studies Harvard nomination
 2010 Massachusetts General Hospital Executive Committee on Research Award – Scored 18th out of 147 MGH applicants but deferred due to K01 NIH funding
 2009-2010 Asia Center Scholarship, Harvard University Regional Studies East Asia Program
 2009-2010 Burroughs Wellcome Fund/American Society of Tropical Medicine and Hygiene (BWF/ASTMH) Junior Faculty Fellowship in Tropical Infectious Diseases
 2010- Renaissance Weekend Participant, based on innovation and multi-disciplinary work
 2011 National CFAR Young Investigator Award (Duke University, Durham, NC)
 2012- NIH Early Career Reviewer
 2012-2017 Council on Foreign Relations Term Member

C. Selected Peer-reviewed Publications (Selected from 84 peer-reviewed publications)

Most relevant to the current application (*indicates corresponding author)

1. **Tucker JD***, Chen XS, Peeling RW. (2010). Syphilis and Social Upheaval in China. *New England Journal of Medicine*. 362: 1658-1661. PMID: 20445179. (also *NEJM* 2010; 363:1088-9)
2. **Tucker JD***, Fenton KA, Peckham R, Peeling RW. (2012). Social Entrepreneurship for Sexual Health (SESH): A New Approach for Enabling Delivery of Sexual Health Services Among Most-At-Risk Populations. *PLoS Medicine*. 9:e1001266.
3. Tan X, Rydzak C, Yang L, Vickerman P, Yang B, Peeling RW, Hawkes S, Chen X, **Tucker JD***. (2013). Prioritizing Congenital Syphilis Control in South China: A Decision Analytic Model to Inform Policy Implementation. *PLoS Medicine*. PMID: 23349624. 10(1):e1001375. doi: 10.1371/journal.pmed.1001375.
4. **Tucker JD***, von Zinkernagel D, Goosby E. (2013). An inclusive rights-based foreign policy for health. *Lancet*. 382: 745-746. PMID 23993176.
5. **Tucker JD***, Rennie S, and the Social and Ethical Working Group on HIV Cure. Social and Ethical Implications of HIV Cure Research. *AIDS*. [Epub ahead of print] In Press.

Additional recent publications of importance to the field

6. **Tucker JD***, Bu J, Brown LB, Yin YP, Chen XS, Cohen MS. (2010). Accelerating Syphilis Screening through Novel Rapid Syphilis Testing: A Systematic Review. *Lancet Infectious Diseases*. 10: 381-386. PMID: 20510278.
7. **Tucker JD***, Hawkes SJ, Yin YP, Peeling RW, Cohen MS, Chen XS. (2010). Scaling up syphilis testing in China: implementation beyond the clinic. *Bulletin of the World Health Organization*. 88: 452-457. PMID: 20539859.
8. **Tucker JD***, Tuminez A. (2011). Reframing the interpretation of sex worker health: A behavioral-structural approach. *Journal of Infectious Diseases*. 204 Suppl 5:S1206-10. PMC3205084.
9. **Tucker JD**, Yin YP, Wang BX, Chen XS, Cohen MS. (2012). An Expanding Syphilis Epidemic in China: Epidemiology, Behavioral Risk, and Control Strategies with a Focus on Low-Tier Female Sex Workers and Men Who Have Sex With Men. *Sexually Transmitted Infection*. 87 Suppl 2:ii16-8. PMC3306605.
10. Wang C, Cai WP, **Tucker JD**, Li LH, Hu F. (2012). Systems for HIV Engagement in China. *Lancet*. 380(9845):948. PMID 22959392.
11. **Tucker JD***, Wong FY, Nehl EJ, Zhang FJ. (2012). HIV testing and care systems focused on sexually transmitted HIV in China. *Sexually Transmitted Infection*. 88: 116-9.
12. **Tucker JD***, Yang LG, Yang B, Young D, Henderson GE, Huang SJ, Lu HK, Chen XS, Cohen MS. (2012). Prior HIV Testing among STD Patients in Guangdong Province, China: Opportunities for Expanding Detection of Sexually Transmitted HIV Infection. *Sexually Transmitted Diseases*. 39: 182-7. PMC3282013.
13. Lee R, Cui RR, Muessig KE, Thirumurthy H, **Tucker JD**. (2013). Incentivizing HIV/STI Testing: A Systematic Review of the Literature. *AIDS & Behavior*. PMID 24068389.
14. Cui RR, Lee R, Thirumurthy H, Muessig KE, **Tucker JD**. (2013). Microenterprise development interventions for sexual risk reduction: a systematic review. *AIDS & Behavior*. 17:2864-77. PMID 23963497.
15. Tan NX, Tan GX, Yang L, Yang B, Powers KA, Emch ME, **Tucker JD***. (2014). Temporal Trends in Syphilis and Gonorrhea Infections in Guangdong Province, China. *Journal of Infectious Diseases*. 209: 426-430. PMID 24041788.

D. Research Support

Ongoing Research Projects

- | | | |
|---|--------------------------------|---|
| <p>1R01A108366-01
NIH NIAID
Unintended and Intended Implications of HIV Cure: Social and Ethical Analysis
The major goal of this research is to undertake theoretical research, stakeholder research, and stakeholder engagement research to better understand HIV cure in Chapel Hill USA, Guangzhou China, and Cape Town South Africa.
Role: PI</p> | <p>06/15/2013 – 05/31/2018</p> | <p>2.4 cm
2.86 million USD over 5 years</p> |
| <p>1D43TW009532-01
NIH FIC Global Infectious Diseases Training Grant
UNC-South China STD Research Training Center
The goal of this training program is to nurture the next generation of junior investigators focused on STD research.
Role: Co-PI (lead)</p> | <p>07/12/2013-01/12/2018</p> | <p>1.8cm
1.0 million USD over 5 years</p> |
| <p>1K01TW008200-01A1 (Career Development Award)
Plum Blossom Project: Integrating Syphilis/HIV Testing in South China
This project explores the social basis for the spread and control of syphilis/HIV in South China. Drawing on empirical data from several operational projects in Guangdong Province, the project used quantitative (multi-level modeling) and qualitative (in-depth interviews, focus groups) to identify crucial determinants of integrated syphilis/HIV testing.
Role: PI</p> | <p>07/01/10 – 06/30/14</p> | |
| <p>Harvard China Fund</p> | <p>Kleinman (PI)</p> | <p>1/1/2013-12/31/2015</p> |

Patient-Physician Trust and Mistrust in China: A Qualitative Investigation

The major goal of this qualitative project is to understand individual, community, and institutional aspects of patient-physician trust and mistrust in the Chinese context.

Role: Co-I

Doris Duke Charitable Foundation (no number) Cohen (PI) 8/01/09-6/30/2015

Clinical Research Fellowship for Medical Students

This program provides an opportunity for U.S. medical students to spend one year in Beijing at the National Centers for AIDS Control undertaking mentored research.

Role: Mentor

FHI360 Hamilton (PI) 07/01/2013-12/31/2014 0.1cm

China Tuberculosis Clinical Trials Consortium Network 1.8 million/18 months

The major goal of this research project is to start a tuberculosis research network in China

Completed Research Projects

ASTMH Junior Faculty Fellowship Tucker (PI) 02/01/12 – 01/30/2013

American Society for Tropical Medicine & Hygiene

The major goal of this project is understand syphilis/HIV test uptake at STI clinics in South China.

Role: PI

NIH NIAID UNC CFAR 5P30AI050410-13 Swanstrom (PI) 07/01/2011 – 07/01/2012

Five Goats Project: Syphilis, gonorrhea, and chlamydia among HIV-infected individuals in Guangzhou

Role: Developmental Award PI

NIH NICHD 1R24 HD056670-01 Henderson (PI) 10/01/2007 – 09/01/2012

Partnership for Social Science Research on HIV/AIDS in China

This is a cooperative US-China project which will develop and support capacity in social science required for prevention and treatment of STDs and HIV. The partnership includes UNC (and other US sinologists), China CDC, Renmin University in Beijing and the National STD Center in Nanjing.

Role: Consultant

NIH FICR/FICRF R24 TW007988 Vermund (PI) 01/08/05-6/30/2012

Pre-doctoral and post-doctoral mentored research at the National STD Control Center in Nanjing

The program provides pre-doctoral and post-doctoral trainees from the U.S. to undertake mentored research with a China postgraduate twin, focusing on novel aspects of STD/HIV research in China.

Role: Mentor

R24TW007988 Vermund (PI) 7/01/08-6/30/2009

NIH/Fogarty Early Career Scientist Award

Plum Blossom Project: Integrating Syphilis/HIV Testing in South China

The major goal of this project is understand syphilis/HIV test uptake at STI clinics in South China

Role: PI

N/A (Cohen PI) 02/01/05-09/28/11

Sexually Transmitted Infections Clinical Trials Group (STI CTG)-Core

The University of North Carolina at Chapel Hill has a subcontract for an STD-Clinical Trials Unit, and this is being used to support a project analyzing azithromycin resistance among *T. pallidum* isolates from STI clinics in China.

Role: Subproject Co-I

President and Fellows of Harvard College Tucker (PI) 07/01/10 – 6/30/11

Feasibility of a social network-based FSW intervention in China

The goal of this project is to understand syphilis/HIV testing among sex workers

Role: PI