

JERUSHA T. ACHTERBERG

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Departmental Address:
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EDUCATION:

- Ph.D. Candidate, Biocultural Anthropology** 2010
Department of Anthropology, University of Washington, Seattle, WA
Committee Chair: Steven Goodreau - Anthropology
Statistics Concentration in Anthropology Center for Statistics and the Social Sciences (2008)
- M.P.H. Epidemiology** 2009
Department of Epidemiology, University of Washington, Seattle, WA
Thesis Advisor: Noel Weiss - Epidemiology
- Graduate Workshop in Computational Social Science Modeling and Complexity** 2008
Santa Fe Institute, Santa Fe, NM
- M.A. Biocultural Anthropology** 2006
Department of Anthropology, University of Washington, Seattle, WA
Pass with Distinction, Comprehensive Written Examination (2005)
- Fellow, The Graduate Program for Advanced Studies in Demography** 2003–2005
Center for Studies in Demography and Ecology, University of Washington, Seattle, WA
- B.A. Anthropology with Distinction, Interdisciplinary Honors in Anthropology and Mathematics** 2001
The Pennsylvania State University, University Park, PA
Thesis Advisors: James Wood - Anthropology; Chris Byrne - Mathematics

PUBLICATIONS:

JOURNAL PAPERS

- Halloran ME, **Achterberg JT**, Sabatelli L, Sugimoto JD, Longini IM, Dye C (2009) Reply to Vani et al: TB Models and Complexity. *Proceedings of the National Academy of Sciences*. 106(46): E130.
- Abu-Raddad LJ, Sabatelli L, **Achterberg JT**, Sugimoto JD, Longini IM, Dye C, Halloran ME. 2009 Epidemiological benefits of more effective tuberculosis vaccines, drugs, and diagnostics. *Proceedings of the National Academy of Sciences*. 106 (33): 13980-13985.
- Holman DJ, Grimes MA, **Achterberg JT**, Brindle E, O'Connor KA. 2006 The distribution of postpartum amenorrhea in rural Bangladeshi women. *American Journal of Physical Anthropology*. 129:609-619.
- Holman DJ, **Achterberg JT**, Grimes MA, O'Conner KA. (anticipated submission 2009) The duration of postpartum bleeding in rural Bangladeshi women. *Biodemography and Sociology Biology*.
- Holman DJ, Hua H, Harrell S, **Achterberg JT**. (anticipated submission 2009) Birthspacing and early stopping behavior in Xiaoshan County, Zhejiang Province, China. *Population and Development Review*.
- Achterberg JT**. (in progress) Use recency and duration of oral contraception and endometrial cancer. Target: *American Journal of Epidemiology*.
- Goodreau SM, Jones JH, **Achterberg JT**. (in progress) Modeling the spread of infectious disease in human populations: Where is anthropology? Target: *Yearbook of Physical Anthropology*.

OTHER PUBLICATIONS

- Achterberg JT**. (anticipated 2010) Contagion Culture and Consequences. Ph.D. Thesis, Department of Anthropology, University of Washington.
- Achterberg JT**. 2009 Computational models frame new and outstanding biological questions of *Mycobacterium tuberculosis*. *Working Paper no. 93*. Center for Statistics and the Social Sciences, University of Washington, Seattle.

- Achterberg JT.** 2009 *Duration of Oral Contraceptive Use and Endometrial Cancer*. M.P.H. Thesis, Department of Epidemiology, University of Washington.
- Achterberg JT,** Grubin J, Pang J. 2008 *The One-Third Underserved. The Global Burden of Tuberculosis: A Mathematical Analysis*. Seattle, WA: Seattle Biomedical Research Institute.
- Achterberg JT.** 2006 *Mathematical Models of Tuberculosis: Applications and Bases*. M.A. Thesis, Department of Anthropology, University of Washington.
- Achterberg JT.** 2002 The Akhenaten Temple Project. in Kottak CP. *Anthropology: The Exploration of Human Diversity* 9th ed., Boston: McGraw Hill, p.260; 2004 10th ed. p. 292; 2006 11th ed. p. 236; 2009 13th ed. p. 258; 2004 *Physical Anthropology and Archaeology* 1st ed., New York: McGraw Hill, p. 292; 2006 2nd ed., p. 236.
- Achterberg JT.** 2002 U.S. Smallpox Vaccine Strategy Needs Second Half. *Prospectus*. Washington, DC: The Center for Strategic and International Studies. 3(3).
- Heyman D, **Achterberg JT,** Laszlo J. 2002 *Lessons Learned from the Anthrax Attacks: Implications for U.S. Bioterrorism Preparedness*. Washington, DC: Center for Strategic and International Studies.
- Achterberg JT.** 2002 National ID System Can Improve U.S. Security. *Prospectus*. Washington, DC: The Center for Strategic and International Studies. 3(2).
- Achterberg JT.** 2002 ID Cards and Biometrics. *Prospectus*. Washington, DC: The Center for Strategic and International Studies. 3(1).
- Achterberg JT.** 2001 *Generalized Mathematical Modeling of Tuberculosis within a Population*. B.A. Honors Thesis, Schreyer Honors College, The Pennsylvania State University.

RESEARCH EXPERIENCE:

RESEARCH ASSOCIATE

Center for Statistics and Quantitative Infectious Disease, Fred Hutchinson Cancer Research Center, Seattle, WA

- Programmed stochastic TB transmission models using R, and deterministic models using Berkeley Madonna. Produced international presentations/publications as interdisciplinary team member. Conducted literature reviews and maintained reference database for TB model and parameter estimates. 4/07–present.

Center for Studies in Demography and Ecology, University of Washington

- Modeling Team: Parameterized agent-based computational models and establish parameter values for risk behavior and HIV transmission in men who have sex with men. National Institutes of Health grant (R01 AI083060-01): “Prevention Umbrella for MSM in the Americas.” 9/09–present.
- Completed literature reviews. Responsible for data entry, analysis, draft papers and presentation. 9/03–9/05.

Institute for Social and Economic Research and Policy, Columbia University

- Programmed computational models in Stella under Dr. James Kitts. National Science Foundation grant (0747733), “Disseminating Computational Modeling in the Social Sciences.” 6/08–11/08.

Department of Anthropology, University of Washington

- Completed project literature reviews on anthropological applications of mathematical and statistical modeling of infectious disease. Responsible for draft papers. 6/06–9/06.

Science and Security Initiatives, Center for Strategic and International Studies, Washington D.C.

- Analyzed biodefense projects. Drafted reports, briefs, proposals, annual budgets. Planned events. Secure data management. Assisted editing on-line journal *Prospectus*. 1/02–10/02.

Biotechnology & Public Policy Initiative, Center for Strategic and International Studies, Washington D.C.

- Researched, drafted proposals, briefs. Planned meetings. 9/01–1/02.

Nutrition Department, The Pennsylvania State University

- Researched, coded data, graphically modeled approaches for lit-review. 6/00–8/00.

PROGRAM MANAGEMENT

University of Washington, Seattle, WA

- Principle Investigator: Hired/managed undergraduate research assistants. Coordinated with external collaborators. Obtained and managed funding and human subjects approval.

American Lung Association of Washington, Seattle, WA

- Research Scientist in Residence: Managed creation of TB exhibit at the Washington State History Museum. Researched, located artifacts. Authored exhibit sections. 3/06–6/06.

Abshire-Inamori Leadership Academy, Center for Strategic and International Studies, Washington D.C.

- Program Manager: Hired/managed staff, \$7 million endowment. Led center-wide internship program of ~100 interns/semester. Responsible for external relations, innovative funding proposals. 10/02–8/03.

Research Office, College of Earth and Mineral Sciences, The Pennsylvania State University

- Grants and Contracts Assistant: Maintained proposals, contracts. Created, maintained databases. 6/97–5/01.

APPLIED & FIELDWORK:

Development of Web-based Laboratory Modules for BIO A 201: Principles of Biological Anthropology	6/09–9/09
Specimen/Cast Catalog and Curation; Department of Anthropology, University of Washington	3/06–6/07
Alexandria Archaeology Society; Friends of Alexandria Archaeology, Alexandria, VA	3/02–8/03
Northern Cheyenne Reservation Literacy Center Blitz Build; Chief Dull Knife College, , Lame Deer, MT	Summer 2002
Mendes Temple Project Field School, The Pennsylvania State University, Tel el Rub', Egypt	Summer 2000

FUNDING:

Dissertation Funding National Institutes of Health	2009–10
Applicant-proposed Research Supplement to Promote Diversity in Health-Related Research (co-author of supplement). Award: Containing Bioterrorist and Emerging Infectious Diseases 3U01GM070749-07S1.	
Daris R. Swindler Fellowship Department of Anthropology, University of Washington	2009-10
Huckabay Teaching Fellowship The Graduate School, University of Washington	2009
Academic Tuition Grant Fred Hutchinson Cancer Research Center	2007–09
Baldwin Scholarship Department of Anthropology, University of Washington	2007–08
Research Fellowship NICHD Population Research Predoc Training Grant, CSDE, University of Washington	2004–05
Research Fellowship Shanahan Endowment, CSDE, University of Washington	2003–04
Three-year Recruitment Package Department of Anthropology, University of Washington	2003–06
Phi Beta Kappa Thesis Research Grant Prize Phi Beta Kappa, The Pennsylvania State University	2001
Scholarship Liberal Arts Alumni Society Board of Directors, The Pennsylvania State University	2000–01
Scholarship Schreyer Honors College, The Pennsylvania State University	1997–2001
Scholarship College of Earth and Mineral Science, The Pennsylvania State University	1997–98

Travel Grants:

Student/Postdoc Advisory Committee, Fred Hutchinson Cancer Research Center	2007–08
Graduate School Fund for Excellence and Innovation, University of Washington	2007, 09
Center for Statistics and the Social Sciences, University of Washington	2005–07
Graduate Activities Fund Committee, Anthropology Department, University of Washington	2006–07, 10
Human Biology Association	2006
Schreyer Honors College, The Pennsylvania State University	1997, 2000

SELECTED PODIUM PRESENTATIONS:**RESEARCH-BASED**

- Halloran ME, Abu-Raddad LJ, Sabatelli L, **Achterberg JT**, Sugimoto JD, Dye C, Longini IM. “Impact of vaccination strategies on TB incidence and mortality.” *40th Union World Conference on Lung Health*, Cancun, Mexico. December 6, 2009.
- Achterberg JT**. “Evolutionary Adages: The (Mis)Use of Biological Anthropology in Women’s Periodicals.” in Symposium Session “Paleofantasies and the Promotion of Popular Fitness.” *108th American Anthropological Association Annual Meeting: The End/s of Anthropology*. December 2, 2009.
- Achterberg JT**. “Prehistoric Disease and Modern Public Health: Tuberculosis.” *Seattle Biomedical Research Institute*. August 9, 2007; August 21, 2008; July 10, 2009.
- Achterberg JT**. “TB or Not TB? Communicable Disease in Small Populations.” *Breadth in Anthropological Research*. Seattle WA, April 17, 2009.
- Achterberg JT**. “Tuberculosis Transmission and Maintenance in Small, Low-Density Populations.” *American Association of Physical Anthropologists*, Chicago, IL. April 3, 2009.
- Achterberg JT**, Abu-Raddad LJ, Sabatelli L, Sugimoto JD, Longini IM, Dye C, Halloran ME. “Global health 2015-2050: The epidemiological consequences of novel vaccines against tuberculosis.” *Epidemics*, Asilomar, CA. December 2, 2008.
- Sabatelli L, Abu-Raddad LJ, **Achterberg JT**, Sugimoto JD, Longini IM, Dye C, Halloran ME. “Estimating the potential impact of novel diagnostics on the global tuberculosis epidemic.” *Epidemics*, Asilomar, CA. December 2, 2008.
- Achterberg JT**. “Tuberculosis and Anthropology: A Modeling Perspective.” *Sherman Lab Group, Seattle Biomedical Research Institute*, Seattle, WA. September 30, 2008.
- Achterberg JT**. “Tuberculosis health policy and mathematical models.” *Mycobacteriology Interest Group*, University of Washington, Seattle, WA. March 14, 2008.
- Achterberg JT**. “Characterizing an Infectious Contact of Tuberculosis: A Data-Driven Modeling Approach.” *Dissertation Colloquium*, University of Washington, Seattle, WA. December 14, 2007.
- Achterberg JT**, Evans-Agnew, R. “A Century of Change: TB Control and the American Lung Association.” *13th Annual Washington State Joint Conference on Health*, Yakima, WA. October 17, 2006.
- Achterberg JT**. “Biological Anthropological Approaches to Health Studies: Sample size requirements for estimating parameters of the Siler model of human mortality.” *Anthropology and Health Studies Society*, University of Washington, Seattle, WA. March 14, 2006.
- Achterberg JT**. “Am I Going to Die? Effects of Accurate Disease Models on Biodefense Policy.” *Golden Key International Convention*, Atlanta, GA. August 10, 2002.

INVITED SPEAKER

- Achterberg JT**, Chancellor CE, Lam LL, Oyarzun F. “Teaching at the UW: What You Can Look Forward To.” Opening Plenary, *2009 TA Conference on Teaching and Learning*, University of Washington, Seattle, WA. September 22, 2009.
- Achterberg JT**. “Graduate Support as a Public Good: Personal Experiences.” *College of Arts and Sciences Advisory Board Meeting*, University of Washington, Seattle, WA. January 30, 2009.
- Achterberg JT**. “Commencement Address: What Is Success?” *College of Liberal Arts Graduation Ceremony*, The Pennsylvania State University, University Park, PA. May 12, 2001.
- Achterberg JT**. “The Value of 4-Field Anthropology.” Opening Remarks. *Breadth in Anthropological Research*, Seattle, WA. 2006.

SELECTED POSTER PRESENTATIONS:

- Achterberg JT**, Kramer PK. “Evolving instructional practice: how do we research ourselves?” *American Association of Physical Anthropologists*, Albuquerque, NM. April 15, 2010.
- Achterberg JT**. “Building a network of individuals from population-level datasets: Proximity and transmission.” *Conference on Statistics and the Social Sciences*, University of Washington, Seattle, WA. June 3, 2009.

- Sugimoto JD, Abu-Raddad LJ, **Achterberg JT**, Sabatelli L, Longini IM, Dye C, Halloran ME. “The effects of mass treatment of latent infection and enhanced case management on tuberculosis incidence and mortality.” *Epidemics*, Asilomar, CA. December 1, 2008.
- Achterberg JT**. “Graduate-Undergraduate Research Mentoring: A Narrative Reflection on Expectations and Motivations.” *Teaching and Learning Symposium*, University of Washington, Seattle, WA. May 6, 2008.
- Achterberg JT**, Kramer PA. “A test of dynamic similarity using ground reaction forces.” *American Association of Physical Anthropologists*, Columbus, OH. April 12, 2008; Department of Anthropology, University of Washington, Seattle, WA. 2008-09.
- Achterberg JT**. “Tuberculosis in Washington State: 100 Years of the American Lung Association of Washington.” *9th Annual MPH Practicum Reception*, University of Washington, Seattle, WA. May 16, 2007.
- Achterberg JT**. “Mathematical models of tuberculosis: Existing applications and new directions.” *Human Biology Association Annual Meeting*, Philadelphia, PA. March 28, 2007; Department of Anthropology, University of Washington, Seattle, WA. 2007–08.
- Achterberg JT**. “What’s Ahead for TB? A Review of Tuberculosis Modeling Literature.” *Breadth in Anthropological Research*, Seattle, WA. October 28, 2006; *Fourth Annual Epi Expo*, University of Washington, Seattle, WA. November 7, 2006.
- Achterberg JT**, Holman DJ. “Sample size requirements for estimating parameters of the Siler model of human mortality.” *Human Biology Association Annual Meeting*, Anchorage, AK. 2006; Department of Anthropology, University of Washington, Seattle, WA. 2006–7.
- Achterberg JT**, Holman DJ, Grimes MA, O’Connor KA. “Postpartum bleeding in rural Bangladeshi women.” *Human Biology Association Annual Meeting*, Milwaukee, WI. 2005.
- Achterberg JT**. “Incorporating Exogenous Factors Into A Tuberculosis Model.” *American Association for the Advancement of Science Annual Meeting*, Seattle, WA. February 14, 2004; Department of Anthropology, University of Washington, Seattle, WA. 2004.
- Achterberg JT**. “Mathematical Modeling of Disease Effects on Population: Tuberculosis.” *Schreyer National Conference: Innovations in Undergraduate Research and Honors Education*, University Park, PA. March 30–April 1, 2001.
- Achterberg JT**. “Mathematical Modeling of Disease Effects on Population: Tuberculosis.” *Tenth Annual Undergraduate Exhibition*, The Pennsylvania State University, University Park, PA. March 21–22, 2001.

TEACHING EXPERIENCE:

INSTRUCTOR

Department of Anthropology, University of Washington

- **Principles of Biological Anthropology (BIOA 201)** Spring 2008, Summer 2010
Created course structure, lectures, textbook selection. Created a lab-based course suitable for different experience levels and interests. Utilized web-based grading and student interaction.
- **Special Topics: Communicating Anthropology (ANTH 469, BIOA 499)** Fall 2006, Summer 2008
Self-designed; students use their anthropology skills for higher-ed, research, employment. Guided grad and undergrad across departments on individual projects targeting specimen collection from proposal to presentation of original anthropological work.
 - Mentor, Undergraduate Research Program Spring 2007
 - Capstone Project Client Representative, School of Informatics 2006–2007
- **Skeletal and Cast Collection (BIOA 499)** Spring–Summer 2006
Designed and led independent study for undergraduates. Mentored on individual projects.
- **Senior Teaching Associate** September 2008–June 2009
Designed and offered trainings to anthropology graduate students. Built an instructional database for four-field anthropology. Teaching consultant to faculty, instructors, TAs.
- **Creating an Anthropology Teaching Portfolio** Fall 2008
Designed a four-fields workshop for creating and strengthening graduate teaching portfolios.

Center for Instructional Development and Research, University of Washington

Designed and taught workshops to new graduate students across all disciplines.

- **Dealing with Difficult Classroom Situations** Fall 2009

- **Presenting Information Effectively** Fall 2006, 2009
- **Creating a Teaching Portfolio** Fall 2007, 2008
- **Establishing and Maintaining Positive TA/Instructor Relationships** Fall 2006, 2007, 2008

Seattle Biomedical Research Institute, Seattle WA

- **Summer Science Workshop on Tuberculosis** Summer 2007, 2008, 2009
Authored, presented TB modeling curriculum, and partnered in professional development at workshop for WA high school math and science teachers.

The Daniel J. Evans School of Public Affairs, University of Washington

- **Evans School Math Camp** Fall 2007
Inaugural instructor, curriculum design/development for incoming MPA students' week-long math course.

Kaplan Premier, Seattle, WA

- **SAT Tutor Training** June 2004–June 2008
Revamped, led 22-hour intensive semimonthly curriculum. Consulted with national curriculum development team (8/07–6/08). Trainer of the Month. Requested PSAT/SAT/ACT/SAT II tutor for math/critical reading/writing/math II/literature students.

TEACHING ASSISTANT

Department of Anthropology, University of Washington

- **Human Fossils and Evolution (BIOA 388-389)** Winter–Spring 2006, 2007
Worked daily with, tutored ~20 students. Graded essay exams. Created course website and online networking tools.
- **Human Biological Diversity (BIOA 101)** Fall 2006
Worked daily with ~50 students, developed individual research projects. Gave course lectures, online instruction. Tutored, graded students.
- **Principles of Biological Anthropology (BIOA 201)** Fall 2005
Taught four sections per week (~80 students). Tutored, graded individual students.

Center for Learning and Undergraduate Education, University of Washington

- **Discussion Session Leader: Principles of Biological Anthropology (BIOA 201)** Winter 2007
Led discussion and tutoring for ~130 students. Requested by instructor.

GUEST LECTURER

Achterberg JT, Styles M, Flaming RJ, Littles O. “The Graduate School Experience: Applications and Advice.” *Department of Anthropology Undergraduates*. University of Washington, Seattle, WA. March 4, 2010.

Achterberg JT. “Are you sick of math? Biological anthropology and the math of sickness.” *Anthropology Club at UW*. University of Washington, Seattle, WA. February 25, 2010.

Achterberg JT. “Fossil Hominids & Human Evolution.” *Justine Hurley’s 5th/6th grade*. Lockwood Elementary, Bothell, WA. February 5, 2009.

Achterberg JT. “Creating a Teaching Statement in Anthropology.” *ANTH 569: Special Topics— Teaching Anth 100*. University of Washington, Seattle, WA. November 12, 2008.

Achterberg JT. “Infectious Disease: Human Variation and Evolution.” *BIO A 101: Human Biological Diversity*. University of Washington, Seattle, WA. August 13, 2008.

Achterberg JT. “Biology, Culture and Evolution: The Case of Tuberculosis.” *BIO A 201 Principles of Biological Anthropology*. University of Washington, Seattle, WA. January 12, 2008.

Achterberg JT. “Tuberculosis and Tuberculosis Exposure.” *BIO A 483: Human Genetics, Disease and Culture*. University of Washington, Seattle, WA. November 9, 2006.

Achterberg JT. “Infectious Disease as Environment.” “Tuberculosis as Environment.” “TB Transmission and Behavior.” *BIO A 101: Human Biological Diversity*. University of Washington, Seattle, WA. November 7–9, 2006.

HONORS:

COMMENDATIONS:

- **Excellence in Teaching** University of Washington 2007
 Demonstration of extraordinary ability in teaching/learning process as a graduate TA. Award based on: mastery of the subject matter; enthusiasm and innovation; the ability to inspire independent and original thinking. One of two annual recipients; university-wide.
- **Student Marshal** College of Liberal Arts, The Pennsylvania State University 2001
 Penn State’s highest possible undergraduate honor. For academic and extracurricular achievement.
- **Student Scholastic Showcase** Golden Key International Honour Society 2002
 Research achievement. One of four international Golden Key members.
- **Social & Behavioral Sciences 1st Place** 10th Annual Undergrad Exhibition, The Pennsylvania State University 2001
- **AAAS/Science Program for Excellence in Science** American Association for the Advancement of Science 2007
 Scientific potential and achievement; nominated by University of Washington faculty.
- **Certificate of Recognition** Graduate School & Center for Instructional Development and Research 2006–09
- **Outstanding Achievement** Celebrating UW Women, University of Washington 2009-10
- **Achieving Woman Award** Commission for Women, The Pennsylvania State University 2001
- **Charles R. Jenkins Award** National Executive Council of Lambda Alpha 2000–01
- **The National Dean’s List** Nominated by Lambda Alpha Honor Society 1999–2000
- **Dean’s List** The Pennsylvania State University 1997–2001
- **Junior Science & Humanities Symposia** U.S. Army, Navy & Air Force 1997
- **Outstanding Achievement Award in Advanced Earth Science** Nittany Geoscience Inc. 1997
- **Advanced Placement Scholar** The College Board 1997

HONOR SOCIETIES:

- Sigma Xi (Full Member); Phi Kappa Phi; Phi Beta Kappa; Lambda Alpha Eta National Anthropology Honors Society; Golden Key National Honors Society; The National Society of Collegiate Scholars; Phi Eta Sigma National Honor Society.

SERVICE:

University of Washington

The Graduate School

- Continuous Enrollment Task Force 9/09–12/09
- Task Force on Graduate Student Funding 2/09–6/09
- Graduate and Professional Student Senate 9/03–6/04

Department of Anthropology

- Human Subjects Review Committee 9/06–10/07
- Curriculum Committee 9/03–10/07
- Development Committee 1/05–10/05
 Reviewed development proposals. Chaired grad student fund distribution efforts.
- Graduate Activities Fund Committee 1/05–9/05
 Founding member: Developed annual graduate student Breadth in Anthropological Research conference.
- Anthropology and Health Studies Society 1/04–10/07
 Communications Chair/Founding member: Examined interaction of humans, health, morbidity and mortality in student group.

Center for Instructional Design and Research

- Teaching and Learning Symposium Steering Committee 10/08–4/09

Pearson Biological Anthropology Lab (PBAVL) Editorial Review Board, Pearson/Prentice Hall 6/09–12/09

Scholar Alumni Society Board, Schreyer Honors College, The Pennsylvania State University 10/05–10/08

President, Penn State Anthropology Society, The Pennsylvania State University 8/99–5/01

AFFILIATIONS:

Scholar, Network of Members of the Institute of Translational Health Sciences University of Washington	2009–present
American Anthropological Association	2009–present
American Association of Physical Anthropologists	2004–present
Human Biology Association	2004–present
American Association for the Advancement of Science	2003–04, 07–present
Women in International Security	2002–04
Penn State Alumni Association	2001–present
Schreyer Honors College Alumni Association	
Liberal Arts Alumni Association	

CURRENT RESEARCH INTERESTS:**COMMUNICABLE DISEASE AS A SELECTIVE PRESSURE**

- **Can tuberculosis be maintained in small populations if contact variation is considered?**
Obtained "Research Supplements to Promote Diversity in Health-Related Research Program (S1)" supplement to existing National Institutes of Health grant (U01 GM070749-07) "Containing Bioterrorist and Emerging Infectious Diseases." 8/09–07/10. PhD Committee: Steven M. Goodreau, Patricia A. Kramer, Ira M. Longini Jr., Noel S. Weiss (University of Washington)
- **How does this contribute to the origins of large population structures? How can archaeological and historical linguistic data be included?**
- **What implications does networked transmission have for human interaction with non-human primates?**

ENHANCING PARTICIPATION IN SCIENCE, TECHNOLOGY, ENGINEERING AND MATH (STEM) FIELDS

- **How can biological anthropology promote STEM competencies in non-STEM students?**
Proposed: Kramer PA, Achterberg JT. 2009 What about non-STEM undergraduates? Promoting STEM content and competence using biological anthropology. Challenge Area (12) Science, Technology, Engineering and Mathematics Education (STEM); Challenge Topic, 12-OD-101: Efficacy of educational approaches toward promoting STEM competencies.
- **How can women and under-represented minorities' STEM participation increase?**
- **Can novel technologies effectively enhance or replace biological anthropology labs?**
Proposed and obtained Huckabay Teaching Fellowship "Development of Web-based Laboratory Modules for BIO A 201: Principles of Biological Anthropology" from the University of Washington Graduate School to conduct research program exploring the viability of teaching introductory paleoanthropology labs online versus in-class. Developed and created online integrated lecture-lab activities, tested with University of Washington undergraduates 6/09–9/09.

FERTILITY CHOICES AND ENDOMETRIAL CANCER

- **How are the recency and duration of use of oral contraceptives associated with endometrial cancer?**
MPH Committee: Noel S. Weiss (University of Washington, Fred Hutchinson Cancer Research Center), Jennifer Doherty (Fred Hutchinson Cancer Research Center)
- **How can an anthropological or cultural view of menstrual cycles and menopause be incorporated into clinical research frameworks?**