

CURRICULUM VITAE
STEPHANIE MALIA FULLERTON

DEPARTMENT OF BIOETHICS & HUMANITIES
UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE
BOX 357120
SEATTLE, WA 98195
PHONE: (206) 616-1864
FAX: (206) 685-7515
E-MAIL: SMFLLRN@U.WASHINGTON.EDU

Updated 2/2009

EDUCATION

DPhil, University of Oxford (United Kingdom) in Human Population Genetics, 1995
Thesis: "Allelic sequence diversity at the human β -globin locus"
Supervisors: John B Clegg & Anthony J Boyce
Examiners: Sir Alec J Jeffreys & Edward M Southern

Postgraduate Diploma, University of Oxford in Human Biology, 1990
With Distinction

B.A., Occidental College (Los Angeles) in Biochemistry (minor Religious Studies), 1989
With Distinction, *Summa Cum Laude*

ACADEMIC APPOINTMENTS

Assistant Professor, Department of Bioethics & Humanities (formerly Medical History and Ethics),
University of Washington School of Medicine, September 2005-present

Adjunct Assistant Professor, Department of Genome Sciences, University of Washington School
of Medicine, June 2008-present

Adjunct Assistant Professor, Department of Epidemiology, University of Washington School of
Public Health and Community Medicine, February 2009-present

NIH Ethical, Legal, and Social Implications Program Postdoctoral Fellow, Department of
Anthropology & Rock Ethics Institute, Pennsylvania State University, September 2002-August
2005 (Sponsors Kenneth M Weiss, Nancy Tuana, & Robert N Proctor)

Research Associate, Department of Human Genetics, University of Chicago, December 2000-
September 2001 (Supervisor Anna Di Rienzo, NIH DK56670)

Research Associate, Departments of Anthropology and Biology, Pennsylvania State University,
August 1998-November 2000 and October 2001-August 2002 (Supervisors Andrew G Clark &
Kenneth M Weiss, NIH HL58239)

University Lecturer (equivalent of US Assistant Professor), Department of Anthropology,
University of Durham (UK), October 1994-July 1998

Postgraduate Tutor in Genetics and Human Sciences, St. John's, St. Hilda's, and Somerville
Colleges, University of Oxford (UK), 1991-1993

HONORS AND AWARDS

Invited Participant, National Academies Keck *Futures Initiative* conference on "The Genomic

Revolution: Implications for Treatment and Control of Infectious Disease', Irvine, CA, November 2005

Invited Participant, National Endowment for the Humanities 'Science and Values' Summer Institute, Department of History and Philosophy of Science, University of Pittsburgh, 2003

Invited Visiting Fellow, Biomolecular Function and Evolution in the Context of the Genome Project, Isaac Newton Institute for Mathematical Sciences, Cambridge (UK), 1998

Special Award for Younger Staff, University of Durham (UK), 1996

Rhodes Scholarship, The Rhodes Trust, 1989

Selle Award to Outstanding Biology Graduate, Occidental College, 1989

Lucille Y. Gilman Memorial Award to Outstanding Senior, Occidental College, 1989

GRANTS AND FELLOWSHIPS

NIH NIAID, NW Regional Center of Excellence for Biodefense and Emerging Infectious Diseases, Developmental Grant (Study of Scientists Attitudes Toward Dual Use Risk), 2006-2009, \$165,105

Keystone Symposium, 'Human Genome Sequence Variation and the Inherited Basis of Common Disease', Scholarship (part of NHGRI Grant 1 R13 HG003272-01 to D. Altshuler), 2004, \$1000

National Institutes of Health, NRSA Postdoctoral Fellowship in the Ethical, Legal, and Social Implications of Human Genetics Research (NHGRI Grant HG2629), 2002-2005, \$162,000

University of Durham Research Committee, Special Projects Grant, 1997, £3,000

The Royal Society, Research Grant (Study of Variation in Human Origins of Replication), 1996, £10,000

UK Medical Research Council, Small Project Grant (Pilot Study of Variation in Human Origins of Replication), 1995, £35,480

University of Durham Research Committee, Special Equipment Grant, 1994, £20,000

Overseas Research Students' Award, Committee of Vice-Chancellors & Principals of the Universities of the United Kingdom, 1992

RESEARCH EXPERIENCE

electronic Medical Records and GENomics (eMERGE) national research consortium. Co-direct ELSI research program for the University of Washington/Group Health project site; lead national working group focused on return of results in the context of genomewide association studies, 2007-present

Institute of Translational Health Sciences (University of Washington CTSA). Co-investigator with the Regulatory Support and Bioethics Core; member of the Research Ethics Consultation Service, 2007-present

Center for Genomics and Healthcare Equality. Research on the ethical and social implications of emerging genetic technologies for health care disparities. Co-Investigator and Co-Chair of Health

Disparities Working Group, 2005-present

Negotiating complexity: common disease and diverse genomes. Postdoctoral training in Ethical, Legal, and Social Implications, with research component focused on the uses and understandings of human variation by the contemporary human genetics community. Sponsors: Kenneth M Weiss (Anthropology), Nancy Tuana (Philosophy/Rock Ethics Institute), & Robert N Proctor (History), Pennsylvania State University, 2002-2005, and on-going

DNA sequence variation in calpain-10, a candidate locus for type II diabetes. Postdoctoral research focused on allelic sequence diversity in the 35-kb *CAPN10* gene, in four human populations. Supervisor: Anna Di Rienzo (Human Genetics), University of Chicago, 2000-2001

Population genetic analysis of sequence variation in candidate loci for cardiovascular disease. Postdoctoral research focused on the analysis and interpretation of DNA sequence variation identified in multiple candidate loci, including *LPL*, *APOE*, *APOA2*, *APOA1*, *APOC3*, *APOA4*, and *APOA5*, in US and Finnish populations. Supervisors: Andrew G Clark (Biology) & Kenneth M Weiss (Anthropology), Pennsylvania State University, 1998-2002

DNA sequence variation associated with human origins of replication. Independent research program focused on the molecular genetic investigation of DNA sequence variation in putative replication origins in the human genome. Department of Anthropology, University of Durham, 1995-1998

Allelic sequence diversity at the human β -globin locus. DPhil thesis research focused on the molecular genetic analysis of DNA-level variation of the β -globin gene in multiple human populations. The project marked the first sequence-based investigation of population variation in any human autosomal gene. Supervisors: Anthony J Boyce & John B Clegg, University of Oxford, 1990-1995

TEACHING EXPERIENCE

Program Mentor, NIH Roadmap Multidisciplinary Predoctoral Clinical Research Training Program, University of Washington (T32 RR02356). Year-long supervision of Public Health Genetics PhD Student Sierra Hansen, 2007-2009.

Graduate Instruction, Institute for Public Health Genetics and the Department of Medical History and Ethics, University of Washington. Human Genomics: Science, Ethics, and Society (PHG 590A/MHE 597A), Spring 2006, 2007, Continued as PHG 551/MHE 551 Spring 2008; PhD Supervision, 2005-present (Joon-Ho Yu); MPH Supervision, 2006- (Julie Bares, Brittany Guy, Rachel Malen, Teresa Madrid)

Graduate Instruction, Department of Genome Sciences, University of Washington. Graduate Dissertation Committees, 2005-present (Vivian Hawkins, PI Sibley; Laura Certain, PI Sibley; Jonathan Golub, PI Murry)

Undergraduate and Graduate Instruction, Department of Anthropology, Pennsylvania State University. Feminist Studies of Scientific Theory and Practice (PHIL/WST 497A and ENG 597B), Fall 2003; Introduction to Biological Anthropology (ANTH 021), Summer 2002

Postgraduate Instruction, M.Sc. in Biological Anthropology, Department of Anthropology, University of Durham (UK). Topics taught included The Neutral Theory of Molecular Evolution, Molecular Systematics, and Molecular Genetic Variation and Human Evolution, 1997-1998

Postgraduate Research Supervision, Department of Anthropology, University of Durham. Ana Töpf, "Ancient DNA analysis of British Roman archaeological remains", 1997-1998

Undergraduate Instruction, B.A. in Human Sciences, B.Sc. in Health and Human Sciences, University College Stockton, University of Durham. Courses: Human Diversity - Introduction to Biological Anthropology (average enrollment 100), Human Diversity - Body and Health (average enrollment 50), Health and Human Adaptation (average enrollment 50), Human Genetics (average enrollment 50), Current Issues in Anthropology - Biological and Social Topics (average enrollment 50), 1994-1998

Undergraduate Instruction, B.A. in Human Sciences, B.Sc. in Biology, Institute of Biological Anthropology, University of Oxford (UK). Topics taught included Introduction to Genetics, Human Genetics, Human Population Genetics, 1991-1993

PUBLICATIONS - REFEREED ARTICLES

Yu, JH, Goering, S, & **Fullerton, SM.** (2009) Race-based medicine and justice as recognition: exploring the phenomenon of BiDil. *Cambridge Quarterly of Healthcare Ethics*, 18(1): 57-67.

Caulfield, T, **Fullerton, SM,** Ali-Khan, SE, Arbour, L, Burchard, EG, Cooper, R, Hardy, BJ, Harry, S, Hyde-Lay, R, Kahn, J, Kittles, R, Koenig, B, Lee, SSJ, Malinowski, M, Ravitsky, V, Sankar, P, Scherer, SW, Séguin, B, Shickle, D, Suarez-Kurtz, G, & Daar, AS. (2009) Race and ancestry in biomedical research: exploring the challenges. *Genome Medicine*, 1(1): 39-46.

James, RD, Yu, JH, Henrikson, NB, Bowen, DJ, & **Fullerton SM.** (2008) Strategies and stakeholders: minority recruitment in cancer genetics research. *Community Genetics*, 11(4): 241-249.

Paradies, YC, Montoya, MJ, & **Fullerton, SM.** (2007) Racialized genetics and the study of complex diseases: the thrifty genotype revisited. *Perspectives in Biology and Medicine*, 50(2): 203-227.

Buchanan, AV, Weiss, KM, & **Fullerton, SM.** (2006) Dissecting complex disease: the quest for the philosopher's stone? *International Journal of Epidemiology*, 35(3): 562-571; Response to Peer Commentaries, 593-596.

Vander Molen, J, Frisse, LM, **Fullerton, SM,** Qian, Y, del Bosque-Plata, L, Hudson, RR, & Di Rienzo, A. (2005) Population genetics of *CAPN10* and *GPR35*: implications for the evolution of type 2 diabetes variants. *American Journal of Human Genetics*, 76(4): 548-560.

Weiss, KM & **Fullerton, SM.** (2005) Racing around, getting nowhere. *Evolutionary Anthropology*, 14(5): 165-169.

Fullerton, SM, Buchanan, AV, Sonpar, VA, Taylor, SL, Smith, JD, Carlson, CS, Salomaa, V, Stengård, JH, Boerwinkle, E, Clark, AG, Nickerson, DA & Weiss, KM. (2004) The effects of scale: variation in the *APOA1/C3/A4/A5* gene cluster. *Human Genetics*, 115(1): 36-56.

Fullerton, SM, Bartoszewicz, A, Ybazeta, G, Horikawa, Y, Bell, GI, Kidd, KK, Cox, NJ, Hudson, RR, & Di Rienzo, A. (2002) Geographic and haplotype structure of candidate type 2 diabetes susceptibility variants at the calpain-10 locus. *American Journal of Human Genetics*, 70(5): 1096-1106.

Fullerton, SM, Clark, AG, Weiss, KM, Taylor, SL, Stengård, JH, Salomaa, V, Boerwinkle, E, & Nickerson, DA. (2002) Sequence polymorphism at the human apolipoprotein AII Gene (*APOA2*): unexpected deficit of variation in an African-American sample. *Human Genetics*, 111(1): 75-87 [correction *Human Genetics*, 111(6): 577-8].

Fullerton, SM, Carvalho, AB, & Clark, AG. (2001) Local rates of recombination are positively correlated with GC Content in the human genome. *Molecular Biology and Evolution*, 18(6): 1139-1142.

Fullerton, SM, Bond, J, Schneider, JA, Hamilton, B, Harding, RM, Boyce, AJ, & Clegg, JB. (2000)

Polymorphism and divergence at the β -globin replication origin initiation region. *Molecular Biology and Evolution*, 17(1): 179-188.

Fullerton, SM, Clark, AG, Weiss, KM, Nickerson, DA, Taylor, SL, Stengård, JH, Salomaa, V, Vartiainen, E, Perola, M, Boerwinkle, E, & Sing, CF. (2000) Apolipoprotein E variation at the sequence haplotype level: implications for the origin and maintenance of a major human polymorphism. *American Journal of Human Genetics*, 67(4): 881-900.

Nickerson, DA, Taylor, SL, **Fullerton, SM**, Weiss, KM, Clark, AG, Stengård, J, Boerwinkle, E, & Sing, CF. (2000) Sequence diversity and large-scale typing of SNPs in the human apolipoprotein E gene. *Genome Research*, 10(10): 1532-1545.

Weiss, KM & **Fullerton, SM**. (2000) Phenogenetic drift and the evolution of genotype-phenotype relationships. *Theoretical Population Biology*, 57(3): 187-195.

Harding, RM, **Fullerton, SM**, Griffiths, RC, Bond, J, Cox, MJ, Schneider, JA, Moulin, D, & Clegg, JB. (1997) Archaic African and Asian lineages in the genetic ancestry of modern humans. *American Journal of Human Genetics*, 60(4): 772-789.

Harding, RM, **Fullerton, SM**, Griffiths, RC, & Clegg, JB. (1997) A gene tree for β -globin sequences from Melanesia. *Journal of Molecular Evolution*, 44(S1): 133-138.

Fullerton, SM, & Clegg, JB. (1994) Hpa I, Hind III, and Bam HI polymorphisms 3' of the human β -globin gene can be detected by a single polymerase chain reaction amplification product. *American Journal of Hematology*, 47(3): 256.

Fullerton, SM, Harding, RM, Boyce, AJ, & Clegg, JB. (1994) Molecular and population genetic analysis of allelic sequence diversity at the human β -globin locus. *PNAS*, 91: 1805-1809.

PUBLICATIONS – INVITED COMMENTARIES & EDITORIALS

Kelley, M, Fryer-Edwards, K, **Fullerton, SM**, Gallagher, TH, & Wilfond, B. (2008) Sharing data and experience: using the CTSA “moral community” to improve research ethics consultation. (Peer Commentary on Cho M, et al., Strangers at the benchside: research ethics consultation.) *American Journal of Bioethics*, 8(3): 37-9.

Fryer-Edwards, K, & **Fullerton, SM**. (2006) Relationships with test-tubes: where's the reciprocity? (Peer Commentary on Ravitsky V & Wilfond BS, Disclosing individual genetic results to research participants.) *American Journal of Bioethics*, 6(6): 36-38.

Fullerton, SM. (2005) Invited comment on M. Lock's 'The Eclipse of the Gene and the Return of Divination'. *Current Anthropology*, 46(Supplement): S62-S63.

PUBLICATIONS - CHAPTERS IN EDITED COLLECTIONS

Shields, AE, **Fullerton, SM**, & Olden, K. Genes, environment, and cancer disparities. In *Dimensions of Cancer Disparities*, ed. H.. Koh, Springer: New York, NY, in press.

Fullerton, SM. (2007) On the absence of biology in philosophical considerations of race. In *Race and Epistemologies of Ignorance*, eds. S. Sullivan and N. Tuana, SUNY Series on Philosophy and Race, eds. R. Bernasconi and T. D. Sharpley-Whiting, SUNY Press: Albany, NY, pp. 241-258.

Harding, RM, **Fullerton, SM**, Clegg, JB & Griffiths, RC. (1998) Gene trees for β -globin: inferences on the origins of modern humans. In *The Origins and Past of Modern Humans – Towards Reconciliation*

(*Recent Advances in Human Biology, Vol. 3*), eds. K Omoto and P Tobias, World Scientific: Singapore.

Fullerton, SM. (1996) Allelic sequence diversity at the human β -globin locus. In *Molecular Biology and Human Diversity*, eds. AJ Boyce and CGN Mascie-Taylor, Cambridge University Press: Cambridge, pp. 225-241.

PUBLICATIONS – OTHER

Buchanan, AV, Weiss, KM, & **Fullerton, SM.** (2006) Genomics, epidemiology, and common complex diseases: let's not throw out the baby with the bathwater! Authors' response. *International Journal of Epidemiology*, 35(5): 1364-5.

PUBLICATIONS – REVIEWS OF BOOKS OR MEETINGS

Holland, S. & **Fullerton, SM.** (2007) Review of *Taking Biology Seriously: What Biology Can and Cannot Tell Us About Moral and Public Policy Issues*, by de Melo-Martin. *American Journal of Bioethics*, 7(10): 47-8.

Fullerton, SM. (2003) Review of *Where Do We Come From?: The Molecular Evidence for Human Descent*, by J. Klein & N. Takahata. *Heredity*, 90(2): 121.

Weiss, KM & **Fullerton, SM.** (2002) Review of *Life Script: How the Human Genome Discoveries Will Transform Medicine and Enhance Your Health*, by N. Wade. *The Quarterly Review of Biology*, 77(2): 244.

Fullerton, SM. (1999) Review of *DNA Markers: Protocols, Applications, and Overviews* ed. by G. Caetano-Anollés & P. M. Gresshoff. *Annals of Human Biology*, 26(2): 195-196.

Fullerton, SM. (1997) Review of *The History and Geography of Human Genes* by L. L. Cavalli-Sforza, P. Menozzi, & A. Piazza. *Annals of Human Genetics*, 61(5): 463-464.

Fullerton, SM. (1997) Review of *Human Genome Evolution* ed. by M. Jackson, T. Strachan, & G. Dover. *Annals of Human Biology*, 24(5): 481.

Fullerton, SM. (1997) Review of *Variation in the Human Genome* (Ciba Foundation Symposium No. 197), ed. by D. Chadwick and G. Cardew. *Annals of Human Biology*, 24(1): 70-71.

Fullerton, SM. (1996) Phylogeny and molecular biology: reconstructing the tree of life. *Trends in Genetics*, 12(12): 533.

Fullerton, SM. (1996) Review of *Human Molecular Genetics* by T. Strachan and A. P. Read. *Annals of Human Biology*, 23(6): 503-504.

PUBLICATIONS - ABSTRACTS

Clark, A, Weiss, KM, **Fullerton, SM,** Nickerson, DA, & Sing, CF. (2001) Fine-structure of linkage disequilibrium in candidate genes for cardiovascular disease. *Pathologie Biologie*, 49(5): 405.

Fullerton, SM, Weiss, KM, Clark, AG, Taylor, SL, Stengård, J, Boerwinkle, E, Sing, CF, & Nickerson, DA. (2000) Nucleotide and sequence haplotype diversity at the human apolipoprotein AII (*APOA2*) locus: significant deficit of polymorphism in an African-American sample. *American Journal of Human Genetics*, 67(4): 1273.

Fullerton, SM, Weiss, KM, Clark, AG, Taylor, SL, Nickerson, DA, Stengård, J, Boerwinkle, E, & Sing, CF. (2000) DNA sequence variation at the *APOE* locus: new insights into the global

distribution of an important human polymorphism. *American Journal of Physical Anthropology*, Suppl. 30: 154.

Fullerton, SM, Clark, AG, Weiss, KM, Taylor, SL, Nickerson, DA, Stengård, J, Boerwinkle, E, & Sing, CF. (1999) Complete sequence analysis of the human apolipoprotein E locus reveals previously undetected heterogeneity among $\epsilon 2$, $\epsilon 3$, and $\epsilon 4$ alleles. *American Journal of Human Genetics*, 65(4): A84.

Weiss, KM, Clark, AG, **Fullerton, SM**, Taylor, SL, Nickerson, DA, & Sing, CF. (1999) Evaluating the phenotypic effects of SNP variation: sampling issues. *American Journal of Human Genetics*, 65(4): A3.

Fullerton, SM, Taylor, CF, Schneider, JA, Harding, RM, & Clegg, JB. (1998) Sequence variation in human origins of replication: application to evolutionary analysis. *Annals of Human Biology*, 25(4): 399.

Ashworth, L, Taylor, CF, Marlow, CA, & **Fullerton, SM**. (1997) Molecular genetic approaches to sex determination: an evaluation of three methods. *Annals of Human Biology*, 24(3): 275.

Ashworth, L, Taylor, CF, Marlow, CA, & **Fullerton, SM**. (1997) Three genetic methods for sex determination: evaluation and application to the analysis of DNA from teeth. *American Journal of Physical Anthropology*, Suppl. 24: 70.

Fullerton, SM, Bond, J, Schneider, JA, Harding, RM, Boyce, AJ, & Clegg, JB. (1997) DNA replication and polymorphism at the human β -globin locus. *Annals of Human Biology*, 24(3): 269-270.

Fullerton, SM, Bond, J, Schneider, JA, Harding, RM, Boyce, AJ, & Clegg, JB. (1997) The β -globin origin of replication region is hypervariable in humans. *American Journal of Physical Anthropology*, Suppl. 24: 114.

Fullerton, SM, Harding, RM, Griffiths, RC, and Clegg, JB. (1997) The genetic ancestry of modern humans: inferences from the analysis of DNA sequence diversity at the human β -globin locus. *American Journal of Human Biology*, 9(1): 128.

Fullerton, SM. (1996) Allelic sequence diversity at the human β -globin locus (DPhil Thesis Abstract). *Social Biology and Human Affairs*, 61(1): 37.

Fullerton, SM. (1995) Allelic sequence diversity at the human β -globin locus. *Annals of Human Biology*, 22(3): 270.

Fullerton, SM, Harding, RM, Boyce, AJ, and Clegg, JB. (1995) The origin of the sickle cell mutation in human populations: insights from the study of DNA sequence polymorphism at the β -globin locus. *American Journal of Human Biology*, 7(1): 123.

Fullerton, SM, Schneider, JA, Bond, J, Harding, RM, Boyce, AJ, and Clegg, JB (1995) DNA sequence variation at the β -globin locus and human evolutionary origins. *American Journal of Physical Anthropology*, Suppl. 20: 94.

Fullerton, SM, Harding, RM, Boyce, AJ, and Clegg, JB. (1994) DNA sequence variation at the human β -globin locus and its application to evolutionary analysis. *Annals of Human Biology*, 21(1): 99.

Fullerton, SM, Boyce, AJ, and Clegg, JB. (1993) Intrapopulation nucleotide polymorphism at the human β -globin locus. *American Journal of Human Biology*, 5(1): 135.

INVITED NATIONAL AND INTERNATIONAL PRESENTATIONS

“Use of ‘race’ and ancestry in biomedical research: implications and applications”, Ancestry in Health and Medicine Workshop: Expanding the Debate, McLaughlin-Rotman Centre for Global Health, University of Toronto, Toronto, April 2008

“Getting from there to here: environment, evolution, and genetic contributions to behavior”, Royal Society of Canada Symposium on Changing Boundaries between Gene Expressions and the Social Fabric: Social Sciences Confront Modern Genetics Challenges, Edmonton, Alberta, November 2007

“Emerging issues in genetic testing and screening”, Clinical Research Center, St. Luke’s International Hospital, Tsukiji, Tokyo, Japan, March 2007

“Genetic ancestry testing in the United States: ethical implications”, Tokyo Genetic Counselor Network, Teishin Hospital, Tokyo, Japan, March 2007

“Research misconduct: lessons from the United States”, Kyorin University, Tokyo, and the National Institute of Public Health, Wako, Japan, March 2007

“Genetic correlates of racial and/or ethnic identity and their implications for biomedical research” (with KM Weiss). Special Invited Session on the Genetics of Race, American Psychosomatic Society Annual Meeting, Orlando, March 2004

“From population to individual: identifying genetic contributions to complex disease”. Invited Session on Issues in the Use of Demographic Surveys to Define Population Genetics, Population Association of America Annual Meeting, Minneapolis, May 2003

INVITED PRESENTATIONS

“Racial generalization in gene-disease association research: is there any reason to worry?”, Medical Genetics Seminar Series, University of Washington, November 2007

“Engendering research integrity: investigator gender and responses to ethical dilemmas”, Fred Hutchinson Cancer Research Center, Interdisciplinary Club, Seattle, October 2007

“Recreational genomics: all fun and games?”, Health Services Policy Seminar Series, University of Washington, Seattle, April 2007

“Side-stepping race with biogeographic ancestry: genes as solution or problem?”, Biological Anthropology Seminar Series, University of Washington, Seattle, November 2006

“Genetics and health disparities: glancing backward, moving forward”, All Investigator Meeting, Center for Genomics and Healthcare Equality, University of Washington, Seattle, September 2006

“Exploring the racial implications of the International HapMap Project”, Institute for Public Health Genetics Seminar Series, University of Washington, Seattle, November 2005

“Haplotypes and half-breeds: ways in which variation is being reconfigured in the post-genomic era”, Cornell University STS Science Studies Research Group Spring Series, Ithaca, April 2005

“Negotiating complexity: common disease and diverse genomes”, NHGRI ELSI Genetic Variation Consortium Meeting, Bethesda, July 2004

“Where ancestry and environment collide: race in biomedical context.” Rush Institute for Healthy

Aging, Chicago, May 2004

“The Haplotype Map project: refiguring the genome with respect to population (and politics)”. Science, Medicine, and Technology in Culture Series, Rock Ethics Institute, Pennsylvania State University, November 2003

“The dilemma of difference: ‘race’ as a research variable in biomedical research” (Invited Leader of Half-Day Research Seminar). Breaking the Silence Seminar Series, Penn State Univ, February 2003

“Stem cell research: ethical implications” (jointly with molecular biologist Margaret Halleck), Monthly Discussion Forum of the Unitarian Universalist Fellowship of Centre County, Nov 2002

“The evolution of type II diabetes susceptibility: lessons from the calpain-10 gene.” Department of Biobehavioral Health, Pennsylvania State University, April 2002

“Population genetic variation at the type 2 diabetes candidate locus calpain-10.” Institute of Molecular Evolutionary Genetics, Pennsylvania State University, February 2002

“Re-sequencing autosomal loci implicated in disease risk: evolution and biology.” Celera Genomics, Rockville, Maryland, June 2001

“DNA sequence variation in candidate genes for cardiovascular disease risk.” Department of Human Genetics, University of Chicago, Chicago, August 2000

“Apolipoprotein E diversity: genomic sequence analysis of a major candidate locus for CHD.” Gordon Research Conference on Molecular Evolution, Hayama, Japan, October 1999

“The genetics of human evolution: revisiting the ‘Out of Africa’ theory of human origins.” Department of Anthropology, Temple University, April 1999

“Polymorphism and divergence at the β -globin origin of replication.” Institute of Molecular Evolutionary Genetics, Pennsylvania State University, February 1999

“Inferences from variation in human and chimpanzee lipoprotein lipase genes.” Population Genetics week, Biomolecular Function and Evolution in the Context of the Genome Project programme, Newton Institute for Mathematical Sciences, Cambridge, UK, September 1998

“DNA sequence turnover in the vicinity of human origins of replication.” Department of Genetics, University of Nottingham, UK, April 1998 and Department of Biological Anthropology, University of Oxford, UK, May 1998

“The genetic ancestry of modern humans: inferences from the analysis of DNA sequence diversity at the human β -globin locus.” American Association of Physical Anthropology Annual Meeting, Salt Lake City, Utah, April 1998

“Simple sequences and origins of DNA replication.” European Science Foundation Workshop on Microsatellites: Evolutionary Dynamics and Applications, Oxford, August 1997

“Replication, recombination, and DNA sequence variation at the human β -globin locus.” Departmental Seminar, Human Genetics, University of Newcastle upon Tyne, February 1997

“Allelic sequence diversity at the human β -globin locus.” ‘Molecular Biology and Human Diversity’ Special Topic Meeting, Society for the Study of Human Biology, Cambridge, April 1995

OTHER PRESENTATIONS AND POSTERS

“Participation in genome-wide association studies using electronic medical records: trust is key” (Poster Presentation), American Society of Human Genetics Annual Meeting, Philadelphia, PA, November 2008

“Return of results from GWAS and related whole-genome research: preliminary issues identification” (Oral Presentation), electronic MEditional Records and GENomics (eMERGE) National Steering Committee Meeting, Bethesda, November 2008

“Ancestry testing in biomedical research” (Oral Presentation), Genetic Testing, Race, and Community Identity Panel, Translating ELSI: Ethical, Legal, and Social Implications of Genomics meeting, Cleveland, OH, May 2008

“Outside and inside science: thinking about teaching ethics” (Oral Presentation), Ethics in the Science Classroom Short Course, Northwest Association for Biomedical Research, Seattle, February 2008

“Linking genome-wide data to electronic medical records: stakeholder perspectives” (Oral Presentation), Multidisciplinary Pre-doctoral Clinical Research Training Program, University of Washington, January 2008

“Population specificity may not be enough: a case-based investigation of racial generalization in gene-disease association research” (Poster, with JH Yu, J Crouch, K Fryer-Edwards, and W Burke), American Society for Human Genetics Annual Meeting, San Diego, CA, October 2007

“Emerging ethical issues in genome-wide association studies” (Oral Presentation), StarNet Student-Scientist-Teacher Authentic Research Network, Summer Outreach Program, University of Washington, July 2007

Invited Commentator on “Where is the scientific research going?” Panel (Oral Presentation), Workshop on Genetics, Evolution, and Cognitive Ability, Center for Integration of Research on Genetics and Ethics, Stanford University, June 2007

“Ancestry Informative Markers: silencing the social critique of race in genetics” (Oral Presentation, with JH Yu), Society for Social Studies of Science Meeting, Vancouver, BC, November 2006

“Finding new voices: what have bioethicists been missing?” (Oral Presentation, with I de Melo-Martin & AT Ho), American Society for Bioethics and Humanities Annual Meeting, Denver, CO, October 2006

“Genetic susceptibility to cigarette smoking: ethical and social implications.” (Oral Presentation) UW-NW Association for Biomedical Research, Curriculum Design Team Meeting, June 2006

“You did WHAT? How leaving the bench made me a better scientist.” (Facilitated Discussion) Forum on Science, Ethics, and Policy (FOSEP), University of Washington, Seattle, June 2006

“We must foster a culture of responsibility’: managing risks entailed by genomic advances in infectious disease research.” (Poster). Keck *Futures Initiative* ‘The Genomic Revolution: Implications for Treatment and Control of Infectious Disease’ Meeting, Irvine, November 2005

“DNA forensics and ancestry testing: implications for communities.” (Oral Presentation) UW Center for Genomics and Healthcare Equality, All-Investigator Meeting, Seattle, September 2005

“On the absence of biology in philosophical considerations of race” (Oral Presentation). Ethics and Epistemologies of Ignorance Meeting, Pennsylvania State University, March 2004

“Considering variation at high and low resolution: the case of the *APOA1/C3/A4/A5* cluster” (Poster). Keystone Symposium on Human Genome Sequence Variation and the Inherited Basis of Common Disease, Breckenridge, CO, January 2004

“Letting the genie out of its bottle: contemporary population genetics and the new biological basis of race” (Oral Presentation). Society for Social Studies of Science Meeting, Atlanta, October 2003; also ‘Beyond Science and Values’ Meeting, Pennsylvania State University, April 2004

“The turn to haplotype: molecular genetic approaches to human complex traits” (Oral Presentation). NEH Summer Institute on ‘Science and Values’, Pittsburgh, July 2003

“Nucleotide and sequence haplotype diversity at the human apolipoprotein AII (*APOA2*) locus: significant deficit of polymorphism in an African-American sample” (Poster). American Human Genetics Society Annual Meeting, Philadelphia, October 2000

“Polymorphism and divergence at two unlinked human apolipoprotein genes: *APOE* and *APOA2*” (Oral Presentation). Society for Molecular Biology & Evolution Meeting, Yale University, June 2000

“DNA sequence variation at the *APOE* locus: new insights into the global distribution of an important human polymorphism” (Oral Presentation). American Association of Physical Anthropology Annual Meeting, San Antonio, Texas, April 2000

“Genetic diversity at the human apolipoprotein E locus: new insights from complete sequence analysis” (Oral Presentation). Symposium on Genome Diversity and Evolution, American Genetic Association, Penn State University, June 1999

“Sequence variation in human origins of replication: application to evolutionary analysis” (Poster). Cold Spring Harbor Meeting on Human Evolution, Cold Spring Harbor Laboratory, October 1997

“Polymorphic replication origins: candidate regions for sequence haplotype analysis” (Poster). EC Euroconference on Variation in the Human Genome: Acquiring, Handling, and Storing the Data, Helsinki, September 1997.

“The β -globin origin of replication is hypervariable in humans” (Oral Presentation). American Association of Physical Anthropology Annual Meeting, St. Louis, Missouri, April 1997

“DNA replication and polymorphism at the human β -globin locus” (Oral Presentation). Society for the Study of Human Biology Annual Meeting, Oxford, November 1996

“DNA sequence analysis of human nuclear genes: insights from the human β -globin locus” (Oral Presentation). EC Euroconference on Human Genome Variation in Europe: DNA Markers, Barcelona, November 1995

“DNA sequence variation at the β -globin locus and human evolutionary origins” (Oral Presentation). American Association of Physical Anthropology Annual Meeting, Oakland, California, March 1995

“Nucleotide polymorphism at the human β -globin locus” (Poster). 17th International Congress of Genetics, Birmingham, August 1993

PROFESSIONAL SERVICE

Member, Washington State Genetic Advisory Committee, 2008-present

Director, Biomedical Research Integrity Series, University of Washington School of Medicine, 2008-present

External Reviewer, Competition III Interim Review, Genome Canada, Vancouver, September 2007

Co-Organizer (with R Cook-Deegan, R Faden, J Kahn), 'Bioethics and Biodefense' Meeting, Johns Hopkins School of Advanced International Studies, Washington D.C., February 5, 2007

Member, Rhodes Scholarship Selection Committee, State of Pennsylvania, November 2004

Co-Organizer (with PA McReynolds), 'Beyond Science and Values' Reunion Meeting of NEH Summer Institute, Pennsylvania State University, April 16-18, 2004

Member, Rhodes, Marshall, and Mitchell Scholarship Internal Selection Committee, Pennsylvania State University, 1998-2005; University of Washington, 2006-present

University College Stockton Representative, Information Technology Users Committee, University of Durham, 1997-1998

Coordinator, Departmental Seminar Series, Department of Anthropology, University of Durham, 1996-1998

External Adviser, Academic Standards Validation Panel for B.Sc. in Human Sciences, Roehampton Institute, London, 1996

Human Sciences Representative, Information Services Consultative Committee, University College Stockton, University of Durham, 1995-1998 (Committee Chair 1997-1998)

Faculty Representative, Research Committee, Department of Anthropology, University of Durham, 1994-1998

Manuscript Reviewer for *American Journal of Human Genetics*, *American Journal of Physical Anthropology*, *Annals of Human Biology*, *BioTechniques*, *Community Genetics*, *Cultural Anthropology*, *Genetics*, *Genomics*, *Human Genetics*, *Molecular Biology and Evolution*, *Science as Culture*, *Social Studies of Science*, 1994-present

PROFESSIONAL MEMBERSHIPS

American Society for Bioethics and Humanities 2003-present (Reviewer for Program Committee, 2008)

American Society of Human Genetics 1999-present (Social Issues Committee Member, 2007-2009)

Society for Social Studies of Science 2002-present

History of Science Society 2003-2007, Genetical Society (UK) 1993-2006 (Society Representative, University of Durham 1996-98), Society for Molecular Biology and Evolution 1998-2002, Society for the Study of Human Biology 1996-2001 (Committee Member 1996-1998), American Association of Physical Anthropologists 1994-2000, American Association of Anthropological

Genetics 1994-2000, Human Biology Association 1994-1998, Biochemical Society (UK) 1992-1994