

Student Research Projects and Interests

Department of Epidemiology

School of Public Health

University of North Carolina at Chapel Hill

Revised: August 2007

[Note: Some entries may not have been updated by student]

Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacoeppi	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
				X				X					1	Stevens, June; Jordan, Joanne	The master's project looked at the associations between various anthropometric and body composition measures and radiographic knee osteoarthritis. The dissertation further explores these relationships, with emphasis on gender and ethnic differences. I am also involved in various projects that investigate the relationships between dietary factors and osteoarthritis, develop an atlas for diagnosing hand osteoarthritis, and explore various biomarkers.
	X												2	Poole, Charlie and Heiss, Gerardo	I am currently involved in analyzing data on HAART adherence in a RCT with Dr. Golin. Also, I am working towards my masters paper research proposal in Cardiovascular disease. I wish to work further on CVD and Diabetes.
	X											X	3	Kaufman, Jay; Vupputuri, Suma	I am interested in examining the social factors that are associated with Chronic Kidney Disease. I spent this summer researching the prevalence of Hypertension, Diabetes and Chronic Kidney Disease in Ghana. I plan on continuing this research next summer.
X		X							X			X	4	Richardson, David	Master's paper research looks at changes in radiation exposure of Savannah River Site nuclear weapons facility workers in the context of the Civil Rights Movement. Other research includes an internship at the National Cancer Institute assessing confounding in a study of thyroid-related illnesses resulting from fetal exposure to nuclear fall-out from the Chornobyl accident.
	X												5	Whitsel, Eric; Heiss, Gerardo	Cardiovascular Diseases, particularly heart failure and sudden cardiac death. Current projects include: Estimation and Surveillance of Heart Failure that is managed in the outpatient setting (PI: Gerardo Heiss), and the Estimation of the association between prenatal depression and low birth weight in the PAVED study (PI: Patti Chang).

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacopei	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
				X	X						X			6	Miller, Bill	I am currently planning my dissertation around the topic of bacterial vaginosis diagnosis and determinants of recurrence. Other research in which I am involved include assessments of the role of BV in HIV transmission, the effectiveness of influenza vaccines in HIV infected individuals, the global age-specific prevalence of chlamydia, mathematical modeling of breastfeeding and infant mortality in HIV, the epidemiology of STIs in Cameroon, as well as methodologic issues related to the measurement of interaction, uses of RR versus OR with peculiarities of binomial modeling and the use of epidemiologic data to estimate STI transmissibility.
		X	X					X						7	North, Kari	I currently work with Kari North on family-based and population-based genetic epidemiology research projects. My dissertation will examine the role of DNA repair genes in the relationship between tobacco exposure and incident athero-thrombotic events in the ARIC cohort.
	X					X								8	Smith, Jennifer	My research interests are focused on infectious diseases that are associated with cancer, primarily human papillomavirus (HPV). I am currently working on a project investigating the relationship between the persistence of HPV infection and the progression of precancerous cervical lesions and hope to pursue a topic about HPV for my dissertation research in the near future.
									X					9	Stevens, June	Dissertation: Barriers to success of physical activity interventions
	X							X	X					10	Gammon, Marilie	My dissertation will focus on developing methods for survival analysis with missing data in a study of the effects of changes in adiposity and physical activity levels on breast cancer survival in the Long Island Breast Cancer Study Project cohort. I am interested in application and development of epidemiologic methods in studies of diet and cancer.
			X									X		11	Daniels, Julie	I am interested in childhood neurodevelopment and how environmental toxins interfere with normal development. I am specifically interested in how the relative contributions of prenatal and postnatal environmental exposures influence cognition and behavior over the lifespan. I am currently conducting research on the relationship between conduct disorder in adolescent children and environmental lead exposure/prenatal tobacco smoke. In addition, I am working with Julie Daniels in exploring the relationship between maternal smoking during pregnancy and risk for autism.
					X		X							12	Meshnick, Steve	Transmission of HIV and STIs, and the impact on treatment in resource-poor settings on the development and transmission of drug resistance.

Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacopei	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
							X	X					13	Heiss, Gerardo	My dissertation research is focused on the prediction of recurrent stroke, with special attention to the modification of recurrent stroke risk resulting from changes to stroke risk factor profiles. (My thesis for my Master's degree from Johns Hopkins University concerned HIV infection related to cancer mortality.) I am also a statistician working in the Collaborative Studies Coordinating Center (Biostatistics Department) on the Vitamin Intervention for Stroke Prevention Clinical Trial as well as the Carotid MRI study of the Atherosclerosis Risk in Communities (ARIC) study. I have worked on a variety of research topics, including obesity, HIV infection as related to heart disease, women's cancer screening and prevention, tobacco use related to the prevalence of overweight in the U.S., and plasma homocysteine levels as related to folate fortification.
	X												14	North, Kari	My current area of research is the association of dietary micronutrient intake with cardiovascular disease events. I would like to become more involved in research pertaining to endothelial dysfunction in cardiovascular disease (CVD) and atherosclerosis imaging techniques and detection of patients at risk for CVD events.
X			X					X					15	Gammon, Marilie	My current research involves the Southern Community Cohort Study (SCCS), a large prospective cohort study of primarily rural, low-income African-Americans in the south. My dissertation work is focused on a sub-sample of women from the SCCS and will look at behavioral and genetic determinants of obesity and how these differ between white and African-American women.
											X		16	Siega-Riz, Anna Maria	Impact of environmental exposures on fecundity. Prenatal exposures and adult reproductive outcomes.
				X									17	Miller, Bill; Leone, Peter	I am doing my masters paper on a project where I will be using state and county data to develop screening guidelines for gonorrhea and chlamydia in women in different age groups.
						X							18	Marshall, Steve	I've conducted research in a variety of injury areas including motor vehicle, homicide and suicide. I am currently working on my dissertation research examining the association between acculturation among Hispanics and risk for violence.
X			X								X		19	Schroeder, Jane	My dissertation examines relations between insulin-like growth factor polymorphisms (individual SNPs & haplotypes) and uterine fibroids prevalence and growth using the NIEHS Uterine Fibroid Study. Also, I am currently involved in a project assessing factors associated with the prevalence of hypoactive sexual desire dysfunction among a nationally representative sample of women (ages 30 to 70).
										X			20	Jönsson Funk, Michele	Epidemiology of the medical and nonmedical use of controlled substances. Drug abuse surveillance, particularly of prescription opioids. Adverse consequences of drug use: HIV, overdose. Interventions including syringe exchange programs, prescription naloxone, harm reduction and risk management.

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacopei	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
X				X										21	Miller, Bill; Pignone, Michael	My main interest is prevention more specifically cancer control and prevention (colorectal cancer). One of my research projects with Dr. Pignone involves the Transtheoretical Model of change and colorectal cancer screening in a primary care population.
				X										22	Sandler, Bob	Research interests: Endoscopic techniques, outcomes, and quality of care; esophageal diseases. Master's paper is on the effect of nursing experience on screening colonoscopy outcomes.
		X				X		X						23	Siega-Riz, Anna Maria	Work on a Robert Wood Johnson Foundation project on the built environment and physical activity. Also work on the North Carolina violent death reporting system.
		X						X		X		X		24	Olshan, Andy	Primary interest in environmental exposures and perinatal and/or early pediatric outcomes, particularly birth defects. Other interests include exposure assessment, pesticide exposure among kids, and drinking water contamination. Dissertation research focuses on maternal occupational exposure to organic solvents during pregnancy and adverse neonatal endpoints including birth defects and growth restriction.
				X							X			25	West, Sue	My dissertation research examines the effect of panic and pain symptoms on depression treatment outcomes in primary care patients.
					X							X	X	26	Van Rie, Annelies	My research interests are in infectious diseases with a focus on children. Projects thus far have included a focus on the effects of HIV infection and exposure on the neurodevelopment of children in resources poor settings. Also the validation of western developmental testing tools for use in resources poor settings.
					X									27	Behets, Frieda	I'm a research assistant with the UNC/CDC Global AIDS Program (GAP) in Kinshasa, DRC. My master's research investigates the effect of antiretroviral therapy on incident tuberculosis among HIV-positive children participating in GAP's SARA (Sustainable Antiretroviral Access) Project
X														28	Rosamond, Wayne	Neighborhood socioeconomic status and CVD-related health outcomes, prehospital delay for myocardial infarction, and rehospitalization for heart failure
					X									29	Satia, Jessie; Smith, Jennifer	Master's paper research: meta-analysis of world-wide human papillomavirus infection patterns and factors for persistence. General research interests: molecular epidemiology of infectious diseases, especially sexually transmitted infections.
					X									30	Poole, Charlie	I have worked in mammography research for the past four years. This past year I had a research article published in Cancer, titled 'Screening Mammography Performance and Cancer Detection Among Black and White Women in Community Practice.' I have also worked on several projects which have dealt with quality of life issues for the elderly patient with dementia over the past year. As I progress through the program, I hope to devote more time to studying infectious diseases.

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacopei	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
X				X								X		31	Heiss, Gerardo	I am currently working on exploring environmental risk factors for Wilms Tumor for my master's thesis. I will be starting my research assistant ship with Glaxo in the area of therapeutic oncology. I am also working on a couple of small projects with Pediatrics Hematology Oncology department at the UNC hospitals.
X														32	Gammon, Marilie	For my dissertation research, I am doing an ancillary study using interview data and blood samples from the Long Island Breast Cancer Study Project to investigate the possible relationship between peroxisome proliferator-activated receptor-alpha (PPARA) and breast cancer incidence and survival. Effect modification by obesity with these associations is also being explored.
							X							33	Marshall, Steve	My research interests include injury and osteoarthritis. Current projects include: 1) arthritis in retired NFL players and 2) osteoarthritis, injury, and leg length inequality in a community-based North Carolina population (Johnston County Osteoarthritis Project).
	X													34	Wing, Steve	Currently researching the impacts of airborne particulate matter from industrial hog operations on lung function in nearby residents; also interested in children's environmental health.
					X							X		35	Behets, Frieda	Behavioral/social determinants of disease transmission; HIV prevention research (esp. female-controlled methods); STIs; hepatitis C epidemiology and co-morbidities; infectious disease; international health.
							X		X			X		36	Marshall, Steve	My dissertation research includes a case series of occupational homicides occurring in North Carolina, 1994 - 2003 as well as an evaluation of the NIOSH Workplace Violence Prevention strategies.
														37	Millikan, Bob	Master's thesis: HPV typing of archival cervical biopsies. Currently working on several research projects using NC DETECT public health surveillance datasets. I haven't yet selected a dissertation topic.
					X							X		38	Kaufman, Jay	My dissertation research will potentially focus on several important social exposures, such as income inequality, relative deprivation and the intersection of economic and racial heterogeneity at the neighborhood level. I am interested in several outcomes, specifically those that are more susceptible to the psychosocial mechanism of disease causation.
		X									X			39	Schoenbach, Vic	Previous trained as a Family Doctor, I am interested in reproductive epidemiology and in particular preterm birth. I am hoping to look at genetic aspects of preterm birth particularly among African Americans.

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacopei	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
			X									X		40	Wing, Steve	My dissertation will focus on the risk of illness associated with human contact with beach sand. This research is part of the USEPA and CDC-sponsored National Epidemiological and Environmental Assessment of Recreational (NEEAR) Water Study.
X		X	X								X			41	Millikan, Bob	My interests are primarily in 2 areas: (1) pre- and peri-natal influences on adult cancer, particularly breast cancer and (2) gene-environment interaction. My dissertation research is on the validity of using case-only studies to study interaction, including (but not limited to) gene-environment interaction.
						X								42	Smith, Jennifer	My master's paper is on the effect of herpes simplex type 2 (HSV-2) on the acquisition and progression of HIV in a cohort of high-risk women. I have also worked on several HPV/cervical cancer projects and a project looking at HSV-2 diagnostic tests. I hope to continue working on herpes for my dissertation research.
												X		43	Thomas, Jim	Public health impact of hurricanes and other disasters, hurricane evacuation decision making and the role of social capital, social cohesion and social networks, field epidemiology
						X						X		44	Miller, Bill	My dissertation is about the effect of not having parents on HIV prevalence among adolescents in South Africa, using a combination of survey data and qualitative research methods. My other research interests include social and structural HIV prevention, gender, fertility, and the practice of female genital cutting.
						X								45	Van Rie, Annelies	Master's paper will focus on methods of integration of HIV counseling and testing with tuberculosis care in a resource constrained setting.
	X			X										46	Heiss, Gerardo	Dissertation research: Association between exposure to combat-related stress and predicted risk of CHD and stroke in aging men. Other research projects: NC Collaborative Stroke Registry (PI: Wayne Rosamond). Also interested in cardiovascular outcomes research.
				X	X						X			47	Meshnick, Steve; West, Sue	My Master's paper focuses on the public's perception of drug safety in the U.S., and the association between distrust in the healthcare system and poor health outcomes. I am also interested in infectious disease surveillance, and I am working this summer with the Durham Veteran's Administration Hospital to compare influenza-like-illness trends in the Veteran's population to statewide surveillance data from the North Carolina Division of Public Health.
												X		48	Daniels, Julie	Pregnancy, fertility, infant and maternal health. Current research projects include, factors affecting menstrual cycle length, hormone levels after a pregnancy loss, accuracy of self-report of menstrual cycle length, and physical activity during pregnancy.
		X										X		49	Daniels, Julie	Dissertation Title: Geographic Influences on Autism Diagnosis: Proximity to Medical and Educational Services and Exposure to Hazardous Air Pollutants
	X										X			50	Daniels, Julie	Interested in pregnancy and pediatric outcomes

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacopei	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
						X								51	Poole, Charlie	Broadly, I am interested in transmitted antiretroviral resistance among HIV-infected individuals in North Carolina. Specifically, I am looking at the impact of minority drug resistant variants of HIV on patients' response to first line therapy. My research involves a collaborative effort among the following: the North Carolina Screening and Tracing Active Transmission program; the UNC Center for AIDS Reseach HIV Cohort Study; the Epidemiology Department; and Microbiology and Immunology Department.
X														52	Sandler, Bob	I am currently interested in roles of systemic inflammation in colorectal carcinogenesis. My dissertation is 1) to examine association between NSAIDs and rectal cancer using data from a population-based case-control study of colorectal cancer among African Americans and Whites in North Carolina; and 2) to evaluate plasma concentrations of inflammatory mediators (C-reactive protein, tumor necrosis factor-alpha, and interleukin-6) in association with prevalence and risk factors for colorectal adenomas using data and blood specimens collected from a colonoscopy based cross-sectional study.
				X								X		53	Siega-Riz, Anna Maria	Efficacy and cost-effectiveness of pregnancy and labor+delivery interventions
						X								54	Van Rie, Annelies	Master's Paper: Extrapulmonary Tuberculosis, HIV, and Foreign Birth in North Carolina, 1993-2003. This analysis explored the individual and combined associations of HIV and Foreign birth on extrapulmonary manifestations of tuberculosis. Other Research: I have been involved in a number of projects related to communicable disease surveillance in North Carolina. Most recently, working as part of the North Carolina syndromic surveillance group. While remaining interested in surveillance, I hope to do my dissertation research specifically in the area of infectious disease, possibly in the area of tuberculosis.
X								X						55	Schroeder, Jane	My main area of interest is in energy balance, inflammation, and prostate cancer risk. My dissertation is a prospective study of dietary intakes of polyunsaturated and trans- fatty acids and prostate cancer.
		X										X		56	Olshan, Andy	For my dissertation I will be examining the effects of specific lifestyle factors (tobacco use, alcohol consumption and caffeine intake) and body mass index on standard markers of semen quality and a marker of genetic integrity/DNA damage among a cohort of fertile men living in the southern US.
										X	X			57	West, Sue	Drug Safety, especially during pregnancy

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacopei	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
						X						X		58	Behets, Frieda	My dissertation will focus on the association between HIV prevention behaviors and HIV infection among rural South African and Malawian youth. Other research includes: HIV prevention among female adolescents in South Africa; the link between poverty, incarceration and STI transmission in North Carolina; and barriers/facilitators to herpes testing among college students
				X						X				59	West, Sue	My dissertation research is focusing on the quality of life of menopausal women, specifically on the bothersome symptoms around the time of menopause. My aims will be looking at developing a new patient reported instrument for the assessment of symptoms such as hot flashes, sexual dysfunction, and decreased physical functioning.
	X		X											60	North, Kari	I am interested in understanding the association between the genetic risk factors and cardiovascular heart diseases.
						X			X					61	Marshall, Steve	Research Assistant at UNC Injury Prevention Research Center; collected data with the JumpACL project; prior experience in suicide and violence research; supported by NIOSH Occupational Epi. Training Grant.
										X				62	West, Sue	Currently I am involved in a project to evaluate the effectiveness of medications for newly diagnosed type 2 diabetes mellius patients by using UNC health care's electronic medical record. I am interested in applying large health databases including administration and clinical data for research to adverse drug reactions.
	X													63	Rosamond, Wayne	Dissertation research: obesity as a risk factor for heart failure and an analysis of the misclassification bias caused by using diagnostic codes for heart failure. Other ongoing research: incidence and survival of heart failure in the ARIC (Atherosclerosis Risk in Communities study)
	X			X								X		64	Sandler, Bob	I am a 2nd year GI fellow at UNC and will be completing my MPH this year. I have completed a QI project in our tertiary care GI clinic on bone health in our clinic population as my practicum experience. Approximately 11% of our clinic population is currently on corticosteroids and at risk for osteoporosis. I designed and implemented a patient and provider QI project. Baseline data had been collected in 2003, and I collected 1000 patient surveys post intervention in 2007. This project is currently in the data analysis phase. I will also be working on Dr. Sandler's rectal cancer study database for my masters thesis looking at associations between reproductive issues in women and rectal cancer.
		X			X									65	Richardson, David	Effects of environmental change (deforestation, development, climate change, etc) on infectious diseases; mosquito-borne diseases; tropics; South America; Brazil; Amazon region; integrated conservation and health projects

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacopei	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
			X							X				66	Schroeder, Jane	Masters Paper research on upper-extremity musculoskeletal disorders in African American women in the poultry processing industry
		X			X								X	67	Kaufman, Jay	DISSERTATION RESEARCH: My dissertation research uses a combination of medical and pharmaceutical surveillance data to examine various mental health outcomes (e.g., drug/alcohol use, depression, anxiety, etc.) among the spouses and children of U.S. military personnel deployed in support of Operation Iraqi Freedom compared to family members whose spouses/parents were not deployed to Iraq. OTHER RESEARCH INTERESTS/PROJECTS: I also do research looking at risk factors of cardiovascular disease, and am especially interested in the behavioral risk factors of CVD such as nutrition and exercise.
												X	X	68	Kaufman, Jay	I'm currently working on two projects at the Carolina Population Center. The first, with David Savitz and Jay Kaufman, uses New York City birth records data to explore the relationship between race and ethnicity and birth outcomes. The second, with Sherman James and Jay Kaufman, is attempting to describe changes in black/white health disparities in the US South from the early 1960s to the present.
							X							69	Marshall, Steve	My area of research is the epidemiology of motor vehicle crashes, including the factors associated with injury when a crash occurs. I work at the UNC Highway Safety Research Center evaluating the impact of motor vehicle laws, programs, and other interventions. My specialty is research methods and statistical analysis, particularly ARIMA interrupted time series analysis, as applied to evaluating real-world interventions in messy data. My recent work is branching into occupational epidemiology with an interest in the possible association between North Carolina military personnel returning from deployment overseas in Iraq and Afghanistan and their apparently high incidence of motorcycle crashes.
					X	X								70	Miller, Bill	My dissertation research focuses on furthering our understanding of two critical time periods in HIV prevention and care: 1) the time from HIV acquisition to testing, and 2) the time between HIV serostatus awareness and entry into medical care. The goal of the research is to understand why late presentation for medical care among HIV infected persons is so prevalent in the U.S., resulting in missed opportunities for treatment and risk-reduction.
					X									71	Miller, Bill	HIV with focus on clinical care, provision of HAART in resource rich and poor settings, clinical trials research.
	X	X											X	72	Wing, Steve	Masters paper research is on cardiovascular disease and pesticide exposures within the Agricultural Health Study.

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacoepepi	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
												X		73	Siega-Riz, Anna Maria; Daniels, Julie	Current research includes analysis of dietary restraint and gestational weight gain in the PIN study.
						X							X	74	Meshnick, Steve	I am planning to use the Malawi Demographic and Health Survey to identify the socio-demographic correlates of HIV infection in Malawi. There are significant HIV research initiatives mainly exploring clinical and biological aspects of HIV in the country. The social correlates are not fully understood.
		X											X	75	Chen, JC	Interested in environmental exposures and perinatal outcomes. Tentative dissertation topic is investigation of maternal exposure to air pollution and adverse birth outcomes. Also working on analyses of maternal drinking water arsenic exposure and adverse birth outcomes in Inner Mongolia.
												X		76	Evenson, Kelly	My dissertation project is focusing on physical activity during pregnancy, placental blood flow, and the risk of pregnancy-induced/hypertension-preeclampsia. We are using PIN (Pregnancy, Infection, and Nutrition) data from Carolina Population Center. This is the first cohort study looking the effect of both work and leisure-time activity on the development of hypertensive disorders during pregnancy. We also investigate the effect of physical activity on Placental blood flow by measuring uterine and umbilical artery Doppler velocimetry.
						X		X						77	Schoenbach, Vic	I would like to become involved with research on HIV and other infectious diseases.
							X						X	78	Thomas, Jim	Interests include: health disparities, chronic diseases, intimate partner violence, and applied public health in general.
													X	79	Kaufman, Jay	Meta analysis on response of whites and blacks to beta blockers for hypertension.
X			X											80	Millikan, Bob	I am interested in breast cancer heterogeneity, and the relationship between phenotypic differences and differences in tumor etiology. My current research is on the association between single nucleotide polymorphisms and different molecular subtypes of breast cancer.
	X												X	81	Rosamond, Wayne	My masters paper research is on 30-day acute stroke mortality by admission on the weekend versus admission during the week. I'm also interested in disparities in quality/type of stroke care in rural vs. urban and small vs. large hospitals in North Carolina.

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacopepi	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
	X													82	Schroeder, Jane	I am interested in the risk factors associated with epithelial ovarian cancer, particularly those related to inflammation and ovarian dysfunction. For my dissertation I'll be using data from the North Carolina Ovarian Cancer study (PI: Joellen Schildkraut, PhD) and perhaps data from other members of the Ovarian Cancer Association Consortium. My research will focus on ovarian dysfunction, infertility, and hormones and will look at both epidemiologic and genetic factors. While my general interests are in gynecologic cancers, I am also interested in screening and autoimmune disease.
			X							X				83	Daniels, Julie	My research interests are about the effects of pre- and peri-conceptional, and pre- and peri-natal environmental/occupational exposures on maternal fertility, pregnancy outcomes and child development. I'm currently working on my dissertation, titled Polychlorinated Biphenyls, Dichlorodiphenyldichloroethylene, and Infant Development and Growth: An Analysis of the PIN Babies Study.
				X										84	North, Kari; Meshnick, Steve	I am particularly interested in genetic susceptibility to infection and disease progression, primarily for malaria and HIV/AIDS. I'd like to be involved in more genome-wide association and linkage analyses looking at immunogenetics. This is not a huge aspect of research at UNC, which is why I am at Oxford for the summer. I am also interested in global health projects and working in developing countries.
						X								85	Miller, Bill	Epidemiology, microbiology, and outcomes of adult bloodstream infections. I am performing a multicenter retrospective review of all positive blood cultures at Duke Univ Medical Center, Durham VA Medical Center, and Robert Wood Johnson Hospital during 2004 to improve and update our understanding of adult bloodstream infections given the continued advancements in medical technology, highly active antiretroviral therapy, and immunocompromised states. I am also involved in a population-based study of community-acquired Clostridium difficile-associated diarrhea in Durham County and the North Carolina VA medical centers in conjunction with the CDC.
						X						X		86	Schoenbach, Vic	My master's paper investigated an association between incarceration in communities and its effect on rates of gonorrhea.

Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacoepe	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
					X		X						87	Miller, Bill	I am interested in the sexual transmission of HIV, particularly during the acute phase of infection. For my masters paper, I developed a risk score algorithm for detecting acute HIV infection in an STD clinic in Malawi. For my dissertation, I am developing a mathematical model to predict the population-level impact of behavioral interventions initiated during the acute phase of HIV infection. Other work includes a meta-analysis of the per-contact probability of HIV transmission, an evaluation of laboratory tests for diagnosing established and acute HIV, and several studies of the within-host dynamics of HIV and hepatitis C.
											X		88	Kaufman, Jay	Dissertation focus is the black-white mortality gap in the U.S. Other interests include HIV in developing countries and the role of "place" in health disparities.
					X								89	Meshnick, Steve	In general, I am interested in vaccines and infectious diseases. My masters thesis is looking at predictors of chronic hepatitis B in HIV infected individuals attending the UNC Hospital HIV clinic in order to re-evaluate hepatitis B vaccination policies and practices. I'm hoping that my PhD dissertation will be a mathematical model of the indirect effect of the RTS,S malaria vaccine.
						X				X			90	Marshall, Steve	I am currently working on describing intentional suicide in NC using prescription medication within the NC Violent Death reporting system data. My dissertation topic will likely be looking at peadiatric injury, perhaps exploring unintestinal injury risk among children with ADHD. I continue to do some rehabilitation/disability clinical research
			X								X		91	Miller, Bill; Thorp, John	An analysis of the association between maternal serum lipid levels and placental inflammation and vascular abnormalities.
	X											X	92	Rose, Kathy	My dissertation examines electrocardiographic abnormalities and incident heart failure using the Atherosclerosis Risk in Communities (ARIC) Study. Also, I am currently involved in research assessing associations between socioeconomic status and the metabolic syndrome in the ARIC Study.
			X	X						X			93	Jönsson Funk, Michele	I am interested in treatment-induced illnesses and resistant infections. My dissertation concerns hospital acquired infection associated with medical devices such as urinary catheters, central venous catheters, and mechanical ventilators.
X											X		94	Heiss, Gerardo	My research interests are studying the association between socioeconomic status and incident heart failure and its case fatality in Blacks and Whites.

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacoepepi	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
X									X			X		95	Stevens, June	Dissertation research: Do childhood family demographic factors (e.g., number siblings, family income) affect Black males' and Black females' obesity risks differently? Independent research: Meta-analysis: The association between early adult BMI and later risk of developing prostate cancer. Master's research: Case-control study: Obesity in childhood and early adulthood and later risk of developing advanced prostate cancer
						X						X		96	Schoenbach, Vic	Infectious disease testing and prevalence in the NC prison system and the health consequences of imprisonment.
						X								97	Miller, Bill	I am interested in HIV, STDs, TB and other infectious diseases, particularly with respect to marginalized populations. For my dissertation, I am working with the North Carolina Syphilis Elimination Project on a program screening jail inmates for syphilis.
						X								98	Behets, Frieda	HIV and TB treatment programs in the Democratic Republic of Congo. Biomarkers of invasive cervical cancer.
		X												99	Richardson, David; Wing, Steve	For my master's paper, I examining completeness and quality of data that community participants collected for a community based and participatory epidemiologic study of the health effects of living near industrial hog operations.
	X			X										100	Rosamond, Wayne	Clinical stroke research
						X								101	Meshnick, Steve	My experience and interest is in applied epidemiology. I'm particularly interested in GIS and mathematical modeling of infectious diseases.
							X			X			X	102	Marshall, Steve	Research Interests: Injury control and prevention with emphasis on violence, occupational injuries and social factors in injury disparities. Have been involved with projects related to workplace homicide, occupational injuries among firefighters and adolescent workers, and currently, psychosocial stress and uterine fibroids. Dissertation research focuses on area-based social characteristics of workplace homicide and robbery.
								X	X				X	103	Stevens, June	My research has focused on physical activity and obesity in adolescent girls. I am interested in social/environmental determinants of obesity and activity, and have a growing interest in gene-environment interactions. I am also interested in learning methodological techniques to address these topics.
						X							X	104	Behets, Frieda	I'm interested in HIV and health disparities. I spent the summer in Cape Town, South Africa working on a review of the monitoring and evaluation of the South Africa PMTCT program. In the fall, I will begin research in heterosexual HIV transmission among African American females

	Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacoeppi	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
						X						X		105	Thomas, Jim	My interest is in how social structures (incarceration, heterosexism) impact STDs. I currently work with on a project examining the relationship between neighborhood-level factors and STD rates in Chicago, as well a study of barriers to risk behavior disclosure during HIV test counseling.
											X			106	North, Kari	I am interested in understanding associations between genetic disposition and side effects or treatment response of medications. Currently, I am looking at tardive dyskinesia, an involuntary movement disorder, among chronic schizophrenics.
						X								107	Van Rie, Annelies	I am working on a project to develop network based mathematical models to study the transmission of HIV.
						X								108	Weber, David	My research interests include Hospital Infection Control, Epidemiology and Surveillance of Hospital-Associated Infections, Outbreak Investigations and Public Health Communicable Disease Reporting and Surveillance.
X												X		109	Sandler, Bob	My dissertation research uses studies on colon cancer, rectal cancer, and colorectal adenomas to examine the association between trans fatty acid consumption and colon/rectal cancer and adenomas. Other research that I am involved in looks at the relationships between: colorectal adenomas and gall bladder removal; birth outcomes and their association with community level factors
		X									X			110	Daniels, Julie	The effect of prenatal stress on the development of asthma in children
				X		X								111	Meshnick, Steve	Currently I am working in Dr. Meshnick's laboratory on genotypic analysis using HTAs (heterduplex tracking assays) to examine whether a patient with malaria has acquired a new infection or has experienced a treatment failure. In Malawi this summer I am working on a study that is testing specimens from infectious disease patients at the Kamuzu Central Hospital for antimicrobial and antifungal resistance. By determining the identity and susceptibility of virulent bacteriologic pathogens at KCH and combining these findings with clinical presentations, we hope to develop sensitive and specific algorithms for patient management. In the future, I am interested in pursuing futher study in the area of opportunistic infections relating to HIV/AIDS.
						X		X			X			112	Van Rie, Annelies	Dissertation research focuses on methods for assessing outcomes of antiretroviral therapy in an observational cohort in Johannesburg, South Africa; master's research was stochastic modeling of outcomes after single dose nevirapine for prevention of mother to child prevention. Other interests and project areas include: male circumcision for HIV prevention; pooled testing of blood samples for efficient detection of acute HIV infection; and bioethics.
	X								X					113	Stevens, June	Association of Obesity with hypertension in the National Health and Nutrition Examination Survey (NHANES); also my research interests include nutrition status assessment and dietary assessment in particular.

Cancer	Cardiovascular	Environmental	Genetic/Molecular	Health Care	Infectious Disease	Injury	Methodology	Nutritional/Phys activity/Obesity	Occupational	Pharmacocepi	Reproductive/Perinatal/Pediatric	Social/Psychosocial	<u>Student</u>	<u>Advisor(s)</u>	<u>Projects/Interests</u>
			X							X			114	North, Kari	My dissertation topic is to investigate the association of TCF7L2 gene and type 2 diabetes. I am also involved in several projects, including gene-smoking interaction on the incident CHD in ARIC, Lp-PLA2 V279F gene mutation in Asian population and Meta-analysis in statins treatment in women.
					X								115	Behets, Frieda	HIV infection and outcomes in children with focus on early access and response to HAART among perinatally infected infants (ages 0-24 months).