

Carolina Population Center
The University of North Carolina at Chapel Hill

Training Programs
for
2001-2002

please also see our webpage at:
<http://www.cpc.unc.edu>

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I. THE CAROLINA POPULATION CENTER

The Carolina Population Center (CPC) was established at the University of North Carolina at Chapel Hill (UNC-CH) in 1966 to coordinate university wide programs in population research. The fifty-four elected Fellows of CPC who hold faculty appointments in fifteen UNC-CH departments provide a multi-disciplinary community to carry out population research and train students concentrating in the field (see section V for a list of CPC Fellows).

Support services provided by the Center to the Faculty Fellows, postdoctoral scholars, and predoctoral trainees include access to computer networks and instruction in their use from a large computer staff, access to an in-house population library collection, editorial and graphics support for professional publications and presentations, support for appropriate research applications of Geographic Information Systems methods (GIS) by our spatial analysis unit, statistical consultation, and assistance in the preparation of grant proposals. Office space for faculty, staff, and trainees is provided within the Center, located on six floors of University Square, half a block from campus.

II. CPC TRAINING PROGRAMS

The Carolina Population Center offers training programs for predoctoral and postdoctoral population scholars to develop skills relevant to population research. The keystone in each program is a close individual working relationship between trainees and a specific faculty preceptor. All applicants (including reapplying trainees) are evaluated on an annual basis by the CPC Training Committee, comprised of faculty representing eight departments:

Sociology	Maternal and Child Health
Epidemiology	Nutrition
Economics	City and Regional Planning
Geography	Biostatistics

Privileges and basic requirements are identical for those who accept traineeships regardless of their funding status. Insofar as possible, all trainees receive office space, access to Center computer equipment, financial and instructional support for computer use, access to the CPC library, financial support for travel to the annual Population Association of America (PAA) meetings, and many opportunities for interaction with Faculty Fellows, postdoctoral scholars, and other trainees.

A. The CPC Postdoctoral Program

The primary purpose of the CPC postdoctoral fellowship program is to further the development of skills in population research among those with recent doctorates, although awards have been made to scholars with five or six years of postdoctoral experience. CPC policy anchors this program in a preceptorship arranged between the postdoctoral scholar and a faculty sponsor. Postdoctoral scholars work closely with their faculty sponsors to develop, carry out, and publish the results of research projects. Office space at the Center facilitates frequent and informal contact with colleagues, as do monthly postdoc luncheons to which Faculty Fellows are invited. Postdocs are expected to report their research at the weekly population seminar at least once in the course of their training, and to make other presentations as desired. Participation in sessions on research ethics is expected; participation in research proposal preparation is strongly encouraged. Postdocs may audit relevant UNC-CH courses with approval of their CPC preceptor(s) and permission of the course instructor.

The sixteen postdoctoral trainees during the academic year 2000 hold doctorates in agricultural economics, anthropology, demography, health education, nutrition, and sociology. They hold degrees awarded by Universities such as Brown, People's University of China, Indiana, Maryland, Minnesota, Pennsylvania, Penn State, Southampton, and Stanford.

Among CPC postdocs who have completed their fellowships, the majority accepted university teaching positions, and others hold positions in applied research settings. See Appendix I for a selected list of those who have completed CPC postdoctoral training in the last five years and their current employment.

1. Postdoctoral Fellowship Benefits

Stipend levels for CPC-funded postdocs are determined by the number of completed years of relevant experience since finishing the doctorate. In 2000, the stipend levels shown in the table (see opposite page) apply. In addition to stipends, each CPC-supported postdoc receives support for the payment of premiums on mandatory health insurance.

In some circumstances, limited work for additional compensation (or supplementation) can be arranged. CPC postdocs wishing to acquire more teaching experience, for example, are encouraged to investigate part-time teaching through arrangements they make with an appropriate department. CPC-funded postdocs also receive travel support of up to \$1500 annually to

attend the Population Association of America conference and other professional meetings.

Years of Experience Since Doctorate	Twelve-Month Stipend
0	\$30,000
1	31,000
2	33,516
3	35,232
4	36,936
5	38,628
6	40,332
7 or more	42,300

2. Application Procedures

Applicants may arrange for their own financial support through outside sources or request consideration from a limited number of awards available through the Center. Since some sources of support are limited to certain areas of research (e.g. aging, fertility in developing countries), identification of areas of interest is essential. The initial term of appointment is one year, but reappointment for a second, final year is expected. Postdoctoral traineeships funded by CPC begin during the second half of each calendar year. The deadline for receipt of completed applications is **February 1, 2001**, but those who have announced their intention to complete an application by that date may have until February 9 to submit all materials to the Training Program Coordinator. *Please do not submit stapled materials.*

A key consideration in the selection of postdoctoral fellows is the congruence of research interests between applicant and faculty preceptor. Applicants are urged to contact potential CPC faculty preceptors as soon as possible to arrange sponsorships. Identifying and making arrangements with an appropriate Faculty Fellow can be time consuming. Applicants are expected to consult the list of CPC Faculty Fellows and contact potential sponsors to determine their

availability and interest (refer to section V). A complete application includes:

1. A recent curriculum vitae including information on citizenship/residency status (to determine eligibility for various sources of funding), including a list of references;
2. Three letters of recommendation sent by the writers directly to the training coordinator;
3. A description of the applicant's background in population and related fields, including courses completed, research training, and experience;
4. Copies of any research publications in population or related areas (no more than three);
5. A statement of educational/training goals that includes any courses to be audited and other types of training proposed for development of research skills. Listing of specific courses is not required, but the Graduate School Catalog (or <http://www.unc.edu/res-aca/catalogs/gb/>) may be consulted for possibilities;
6. A proposal for research to be initiated and/or completed during the training period. Proposals need not be long but should be sufficiently detailed to allow reasonable evaluation of their appropriateness;
7. A statement about research and career plans following postdoctoral training; and
8. A letter of endorsement of the application and proposed training program by one or more CPC Faculty Fellows who agree to serve as preceptor(s) if a fellowship is awarded.

B. The CPC Predoctoral Program

Reflecting the unique interdisciplinary nature of the Center, CPC trainees and faculty are drawn from many departments. The thirty-five CPC predoctoral trainees present during the fall term of 2000 are enrolled in the departments of anthropology, city and regional planning, ecology, economics, epidemiology, geography, health behavior and health education, maternal and child health, nutrition, and sociology. Professional positions of former trainees reflect the diversity and value of training for academic and applied research responsibilities. Among the CPC trainees who have completed their doctoral degrees in recent years, many hold faculty positions in colleges and universities and many others work in applied research settings. In keeping with recent trends, the number of

graduated predocs accepting postdoctoral fellowships for additional training has increased. All trainees are encouraged to participate in preparing proposals for research funding, and we note that successful proposals sometimes provide employment opportunities. See Appendix II for a sample of those who have completed CPC predoctoral training in the last five years and their current employment.

1. Requirements

Although predocs accepted into special programs (such as the Demography of Aging and the Life Course program) have additional requirements (e.g. special courses), certain basic requirements pertain to all. Each CPC predoctoral trainee is required to:

- be considered full-time by his or her department for the duration of the award (as defined by department) and maintain good progress in the doctoral program;
- carry out a research practicum of at least twelve hours per week that is supervised by a CPC Faculty Fellow/preceptor;
- notify the CPC Training Office of the practicum and the name of the CPC faculty preceptor during the first month of appointment;
- complete a two-term course in basic demography (SOC 212/213 or BIOS 170/271) before or during the first year as a trainee;
- complete two other approved population courses—at least one of which is an advanced, 200-or-higher-level course—by the end of the second year as a trainee (see Appendix III for list of CPC approved population courses);
- participate regularly in the weekly CPC seminar series and in occasional trainee work-in-progress seminars (refer to section IV);
- receive instruction in the ethical conduct of research, participating in at least four approved seminars, classes, or lectures during each appointment year;
- have a population focus for thesis and dissertation research;
- submit a progress report at the end of each term; and
- reapply each year for a desired CPC traineeship, regardless of funding.

Every three years, the CPC Training Committee revises its list of approved population courses (see Appendix III) to reflect instructional content that is directly related to the core material of population study. For course descriptions, please consult the Graduate School Catalog, which can be found at <http://www.unc.edu/res-aca/catalogs/gb/>. Those wishing to purchase a copy of the current catalog may place orders with the UNC Student Stores at 919-962-5066 (which accepts Visa and MasterCard). A number of methodology

courses available from various departments are also relevant to population research and are a customary part of most trainees' departmental curricula.

2. Predoctoral Traineeship Benefits

Tuition and fees for students who are not North Carolina residents and register for a full course load are expected to be approximately \$12,500 for the two terms of academic year 2001-2002. Funding for predoctoral traineeships includes tuition and fee support limited to \$2,000 plus 60% of the charges over \$2,000 for a twelve-month period. CPC is working with departments to find ways to cover some of the remaining costs but cannot guarantee the availability of additional support. Funded predoctoral trainees currently receive mandatory UNC major medical insurance and a yearly stipend of \$15,060 (\$1,255 per month, paid on the last working day of each month). Regardless of funding, each trainee is provided up to \$750 travel money to attend PAA meetings, (or with special permission, to a different population-relevant professional meeting).

Support from institutional National Research Service Awards (NRSA) from two NIH institutes (NICHD and NIA) and Hewlett, Mellon, and Compton Foundation awards make funded traineeships available to U.S. citizens and foreign nationals. The Fogarty International Center provides support for the doctoral training of a limited number of foreign collaborators on selected international research projects. Since some funding sources are specific to program areas (e.g. aging), applicants should state their interests clearly. Current CPC policy limits the award of traineeships to stipend support for the first four years of a doctoral student's graduate training at UNC. Because CPC funds are generally allocated before departments complete all admission decisions, new applicants are urged to complete graduate school applications well before deadlines so that departmental decisions may be made prior to CPC deadlines.

3. Application Procedures

All CPC predoctoral trainees must be enrolled in programs leading to a doctoral degree at UNC-CH. Because CPC neither admits students nor awards degrees, it is the individual responsibility of each applicant to obtain admission to an appropriate doctoral program. Information on graduate admissions procedures may be obtained from registrars of appropriate departments or from the Director of Graduate Admissions, Bynum Hall, CB# 4010, University of North Carolina, Chapel Hill, NC 27599. A focus on population research is central to each trainee's program of study, but doctoral students from any UNC-CH department are eligible to apply. CPC predoctoral

application guidelines may be found online at:

<http://www.cpc.unc.edu/training/guidelines.html>

For those who do not have access to the Internet, a set of guidelines will be mailed by the Training Program Coordinator by request. The deadline for receipt of completed applications (*unstapled*) is **February 1, 2001**. Materials should be sent to the Training Program Coordinator. Applications from those not yet recommended for admission to a doctoral program by a UNC-CH department at the time the committee meets to evaluate applications (usually in the last week of February) will not be reviewed. The department to which the applicant is admitted must submit a form certifying eligibility and providing information about the applicant's academic qualifications and record. Applicants may request appointment as trainees with or without direct financial support. Each year, the CPC Training Committee evaluates all applicants, including current trainees who wish to continue.

C. Population Research Training for the Middle Eastern Region

For the academic years 2000-2003, The Andrew W. Mellon Foundation has awarded a grant to CPC and the University Center for International Studies (UCIS) to train Middle Eastern scholars in population research at UNC-CH. Three fellowships will be available each year for the region.

1. Eligibility Criteria

To qualify for a CPC predoctoral traineeship, the student must meet the following conditions:

- be a resident of the Middle Eastern region; i.e. has resided for a minimum of five years in a West Asian or North African country (Arab countries, Turkey, and Iran);
- be committed to returning there to live and work professionally;
- have a masters degree from a recognized university; and
- be planning to focus doctoral research on a population-relevant research topic.

2. Requirements and Benefits

Selected Middle Eastern trainees will be expected to fulfill all requirements of the CPC predoctoral trainee program (see section II.B.1), as well as be trainees of CPC's population training program throughout their doctoral study. They will also be expected to participate in seminars and workshops on Middle Eastern population issues organized by the UCIS/CPC under this program. As is the case with all CPC-funded trainees, successful doctoral candidates will receive a year-

long fellowship with a monthly stipend of \$1,255 (\$15,060 per annum for the year 2000), student health insurance, fees, and full tuition for fall and spring semesters. If the department awards the student *tuition remission* to in-state levels, the CPC award provides the same stipend, in-state tuition, health insurance and fees for 18 months. Trainees will be eligible for travel, computer support, and research service support from CPC and UCIS. Roundtrip airfare to Chapel Hill, ground transportation, and associated visa expenses also will be provided. Middle Eastern trainees will be eligible to apply for support for research travel either to overseas project sites or to present papers at professional meetings. Doctoral students under this program must be supported (tuition and stipend) in their final years of study through departmental sources. That support, depending on academic performance, could include tuition waivers and/or graduate research or teaching assistantships.

3. Application Procedures

The Middle East Awards program (MEAwards) of the West Asia and North Africa Office of the Population Council is assisting UNC in the selection of trainees. This will include initial screening and short-listing of candidates for UNC fellowships, and ensuring that the proposed study and research plans have a clear population related dimension. Applications that successfully complete the MEAwards screening process and are short-listed by the Fellowships Selection Committee will be sent to UNC for final consideration by the department in which the applicant wishes to enroll. Departmental requirements include TOEFL and GRE test results. In addition, an *unstapled* trainee application should be received by the CPC training program office by **February 1, 2001** (see section II.B.3 or refer to <http://www.cpc.unc.edu/training/predoc.html> for application guidelines). In order to apply, candidates must have been accepted into a UNC-CH doctoral program. It is therefore important that all application materials are received by the department and processed no later than mid-February, in time for the CPC Training Committee evaluation meeting.

More information concerning training for the Middle Eastern region (including initial application form) can be found on the following website:

<http://www.popcouncil.org/meawards/fellowships.html>

The completed application form should be sent to:

MEAwards Secretariat
Population Council
P.O. Box 115
Dokki 12211
Cairo, Egypt

D. Mellon Dissertation Feasibility Support, Research Residency, and Language Training

All CPC predoctoral trainees who are planning dissertation research requiring data collection in a developing country are eligible to apply for travel support from CPC Mellon Foundation awards. This support is for the purpose of enabling predoctoral students to visit a developing country for a short period of time to determine the feasibility of (and make preliminary arrangements for) the proposed dissertation research. Applications are accepted for March 15 and October 15 deadlines; guidelines are available from the CPC Training Office. This program has supported trips to Brazil, Ecuador, Egypt, Guatemala, Malaysia, Peru, Tanzania, and Thailand.

CPC has also been able to provide Mellon support for fieldwork or research residency in developing countries for a small number of trainees. Advanced predoctoral trainees and all postdoctoral trainees are eligible to apply for this support. A combined total of \$10,000 from Mellon support is currently allowed. Proposals may be submitted to the Training Program Coordinator at any time at least ninety days before the proposed residency. This program has supported CPC trainees for their research in Brazil, China, Ecuador, Ghana, India, Kenya, Nigeria, the Philippines, and Vietnam.

All trainees who need to acquire skills in a foreign language for their research in a developing country are eligible to apply for support for brief but intensive language training. Decisions about support are based on the merit of the proposal, the cost, and possible alternatives.

E. Demography of Aging and the Life Course Program

An institutional NRSA award from the National Institute on Aging supports several pre- and postdoctoral trainees for special training in the Demography of Aging and the Life Course program. Those with interests in this special area are encouraged to make them known early in the application process and to contact Dr. Glen H. Elder, Jr., director of this training component, for additional information (glen_elder@unc.edu).

III. CPC RESOURCES

Support provided to users of the Carolina Population Center is a major attraction for both faculty and trainees who have population research interests. Many support services are provided through “core units” within the Center, and are described below.

A. Computer Unit Services and Facilities

The Center houses an inter-networked system of Unix servers, micro-computers, and associated peripherals available for persons affiliated with CPC to use for work related to the Center's activities. Through hardware and software connections, users of any of the more than 170 networked PCs or the 20 RS/6000 processors can communicate with each other; share resources such as disk space, printers, and software; and share files.

Computer Services provides a variety of technical skills and experience to CPC Faculty Fellows and their research projects, other Center staff, predoctoral and postdoctoral trainees, and visiting scholars. With a professional staff of programmers and part-time research assistants, the unit provides services in the following four general areas:

- 1) *Administration* includes the integration of computer services at CPC, including primary contact with faculty about their research projects and how services provided by the unit will be implemented for the projects. Personnel, proposal development, project start-up, and financial planning are included in administration.
- 2) *Systems and user service* is responsible for the development, implementation, maintenance, and management of all in-house computing and data communications systems. User service and training activities at CPC are guided by the philosophy that initial orientation and training efforts will have long-term benefits. All users have two to five hours of training, depending on their data management and analysis needs, followed by special advanced training sessions, as needed. This training, combined with full-time user service and customized documentation, provides the continuity of assistance needed to keep users working efficiently in the CPC computing environment. Computer-related purchases for the Center are handled centrally to address issues of compatibility, license compliance, comparative cost advantages, and maintenance implications.
- 3) *Database management and support* provides data preparation for CPC field studies: development of systems for data entry, data cleaning and coding; tracking systems for subject recruitment and specimen collections; specialized occupational coding; data and documentation management; construction of system files from raw data; and descriptive analyses. Data entry staff, comprised primarily of students who are hired specifically to work on the projects, provide these services under the supervision of experienced programmers.

4) *Project programming* includes the majority of the unit staff, who are assigned to specific projects. These programmers are responsible for the data-related activities of those projects, including data cleaning, data management, data dissemination and statistical analyses. CPC has been involved in many primary data collection efforts and the unit provides several survey-related activities among its services. Among these are questionnaire design, codebook and other documentation preparation, and domestic and overseas travel for training and supervising of data preparation. The project programmers also provide user service for trainees and research assistants on their projects, and act as resources for specific software packages.

Access to the CPC network is available to persons affiliated with the Center. All new users must attend a Novell training session prior to using CPC computer equipment. These sessions are offered several times at the beginning of each semester (August and January), and from 10am - 12:00 pm on the 2nd and 4th Monday of all other months.

B. Information Core Services

CPC Fellows, trainees, visiting scholars, and staff have access to an array of services provided by the Information Services Unit, including CPC's library, editorial and graphics services, publication services, and short courses.

- 1) *Library services* include a large collection of population-related materials: books, journals, book chapters, journal articles, research reports, technical reports, working papers, reprints, unpublished papers, Internet resources, and other special materials. The library online catalog contains citations to book chapters and journal articles as well as other library materials and is available as a database accessible from the UNC-CH online catalog. Reference librarians are available forty-five hours per week to help users locate information relevant to their research needs. A courier service provides the CPC community with document delivery from on-campus libraries, and the library will obtain materials from other libraries as well. Library staff also provide training and user support for bibliographic file management using Pro-Cite on the Novell network. The library supports access to Internet resources including the World Wide Web, news groups, mailing lists, ftp sites, and remote resources available through telnet.
- 2) *Editorial services* for population-related scholarly writing are available, including editing of manuscripts such as journal articles, papers, reports, proposals, and book chapters. Services also include verification of references, design advice, consultation on publishing procedures, and assistance with

obtaining permission to use copyrighted materials. Predocs are eligible for help with extracurricular population-related writing, but not with writing for course work, theses, or dissertations.

- 3) *Graphics services* at CPC include HP color printers and plotters, a digital camera, an LCD projector, an HP scanner, as well as assistance with presentation/graphic software including: CorelDRAW, Corel Photo Paint, Corel clipart, Powerpoint, WordPerfect and miscellaneous web editing programs. CPC business cards can be printed on request. Trainees preparing posters for PAA and other meetings with the help of the graphics specialist win recognition repeatedly for their posters and learn useful skills in the process.
- 4) *CPC publications* include the Center's *Orientation Manual* and *Annual Review*, as well as books and articles by CPC authors.
- 5) *Short courses*, usually one-hour long, offered by CPC's Information Services Unit include "Finding Statistics," "UNCLE/MEDLINE--Web Version," "POPLINE," and "POPCAT, CPC Library's Online Catalog." It is also possible to schedule one-on-one training sessions. UNC-CH's Academic Technology and Networks offers a variety of hands-on computer training classes that are available to all university staff, faculty, and students. These are often advertised at CPC along with classes offered by the Health Sciences Library (HSL).

C. Spatial Analysis Unit Services

The CPC Spatial Analysis Unit (SAU) was the first of its kind to be supported by an NICHD population center's award and was beneficiary of a NASA "Centers of Excellence" award, enabling hardware and software purchases to expand capabilities and encourage research in the area of population and environment interactions. The SAU supports basic and applied research leading to the integration of tools, techniques, data sources, and spatial analytical approaches into CPC research conducted at local, national and international sites. A staff of five spatial analysts assists in the areas of research design, spatial and non-spatial database development, spatial data analysis, remote sensor imagery analysis, spatial statistical analysis, and Global Positioning System data collection and analysis, and produces maps and other graphic output in support of the Center's research activities. Workshop presentations introduce trainees to services of this unit and to appropriate research applications.

D. Statistical Support Services

Three Faculty Fellows and two senior programmers from the computer staff comprise the CPC Statistical Services Unit. While individual consulting is primarily for Fellows, trainees benefit in several ways: 1) methodology presentations dealing with techniques of particular interest in population research are held in special seminars for trainees and others, and 2) all trainees participate with their faculty preceptors in research that is eligible for statistical consultation.

E. Biomedical Core Services

The Biomedical Core allows projects, particularly those involving an assessment of health status, to incorporate measurement methods that have resulted from progress in the collection and assay of biological specimens. Faculty, staff, and trainees have access to a group of biomedical assessment experts who can provide consultation about appropriate measures of biological markers that can be incorporated in population-relevant research, such as perinatal, child and reproductive health, nutritional status, studies of the burden of disease, and studies of aging. This core provides biomedical expertise concerning the appropriate use of biological and clinical data collection, as well as informs CPC researchers about the merits and disadvantages of various biomedical methods of health assessment and about the latest developments in data collection and testing procedures.

F. Extramural Support

Like most population centers, CPC is part of a large research university with excellent facilities. CPC's support milieu extends beyond UNC. Within the university, the long-established Odum Institute (formerly known as the Institute for Research in the Social Sciences) and the Institute on Aging are two resources of special value to CPC trainees. The Odum Institute (<http://www.irss.unc.edu/>) provides short courses and colloquia on a variety of useful topics, including computer software applications, social science funding sources, dissertation publication, and research ethics. The Institute on Aging (<http://www.aging.unc.edu/>) brings experts on aging to the area and sponsors seminars. The UNC Oral Communications Program has provided workshops at CPC and other locations on campus and has assisted our trainees in making effective oral presentations.

The CPC is located in the Research Triangle area of North Carolina (defined by UNC-CH, Duke University, and NC State University along with the many public and private research companies of Research Triangle Park) which provides a broad base of opportunities for trainees. The area is a fertile ground

for population research. TAPS, the Triangle Area Population Society, which includes members from all three universities and such organizations as the Research Triangle Institute and Family Health International, encourages trainees to become members and participate in meetings.

IV. THE CPC SEMINARS

A CPC population research seminar series, held weekly during the academic year, provides a forum for learning about on-going Center research, gives postdocs and advanced predocs an opportunity to present their own research, and invites speakers from other universities and research centers. Also scheduled are practice presentations for trainees who are about to present papers at professional meetings such as the PAA. Outside speakers for the population research seminar series during the last few years include:

Herbert Smith, Univ. of Penn.	David Rowe, Univ. of Arizona
James Jaccard, Albany Univ.	Zeng Yi, Peking Univ.
Linda Burton, Penn State Univ.	Kenneth I. Wolpin, Univ. of Penn.
Greg Duncan, Northwestern Univ.	Ellen M. Brennan, Pop. Div., UN
Timothy Gage, Albany Univ.	Virginia Vitzthum, Univ. of Calif.
Emily Agree, Johns Hopkins Univ.	Dan Blazer, Duke Univ.
James Phillips, Population Council	Mark Pitt, Brown Univ.
Charles Wood, Univ. of Florida	Emilio F. Moran, Indiana Univ.
David Kertzer, Brown Univ.	Steven Sinding, Columbia Univ.
Dawn Upchurch, UCLA	Hillard Kaplan, U. of New Mexico
Thomas Merrick, The World Bank	Mikk Titma, Stanford Univ.

CPC also sponsors annual distinguished lecturers and occasional special seminars and workshops. Distinguished lectures have been presented during the last seven years by:

Albert Hermalin, Univ. of Michigan
John Bongaarts, Population Council
Reynolds Farley, Univ. of Michigan
Sara McLanahan, Princeton Univ.
John C. Caldwell, Australian National Univ.
Ronald D. Lee, Univ. of California at Berkeley
Larry Bumpass, Univ. of Wisconsin at Madison

Occasional CPC-sponsored workshops provide other opportunities for trainees. "Multilevel Models," "Analysis of Recurrent Event Data," "Latent Trajectory Models" have been the focus of recent CPC workshops. Also open to trainees

are special interest groups, which meet from time to time to share specialized interests and current research.

V. CPC DIRECTOR AND FACULTY FELLOWS

The Faculty Fellows of CPC are at the core of the Center's activities. The list below shows their department(s) of primary appointment and an indication of current research interests. For more information about recent research activities, please refer to the CPC Annual Review (which can be found at: <http://www.cpc.unc.edu/pubs/>). To make initial contact with Faculty Fellows, email or call using the contact information provided below (the **area code is 919** for all Fellows). New Fellows are elected almost every year, and it is likely that there will be additions before the end of 2001. For updates (unless this booklet has an insert) please contact the Training Program Coordinator.

Amy Ong Tsui, PhD, Director; Professor of Maternal and Child Health
966-1710; amy_tsui@unc.edu
Fertility; Family planning and evaluation of population and health in developing countries

Linda S. Adair, PhD, Associate Professor of Nutrition
966-7238 or 966-4449; linda_adair@unc.edu
Determinants of women's and children's health; Nutritional status and survival; Pregnancy outcomes; Infant-feeding practices; Children's growth

John S. Akin, PhD, Professor of Economics
966-5334 or 966-6537; john_akin@unc.edu
Economic determinants of demand for health care and contraception; Public health program finance; Economic aspects of maternal and child nutrition; Provision and outcome of family planning services in Sri Lanka and the Philippines; Health and family planning in China

Karl E. Bauman, PhD, Professor of Health Behavior and Health Education
966-3900; bauman@unc.edu
Quantitative evaluation of health programs and policies; Mass media; Social and psychological factors in adolescent health behavior

Deborah E. Bender, PhD, Research Associate Professor of Health Policy and Administration and Director, Undergraduate Program
966-7383 or 843-9752; deborah_bender@unc.edu
Community health care services; Breast feeding; Maternal and child health; Latino groups

Margaret Bentley, PhD, Associate Professor of Nutrition
843-9962 or 966-9575; pbentley@unc.edu
Infant feeding; Adolescent and women's reproductive health; Sexually transmitted diseases; Qualitative assessment methods

Richard E. Bilborrow, PhD, Research Professor of Biostatistics; Adjunct Professor of Ecology and of City and Regional Planning
966-1738; richard_bilborrow@unc.edu
Population, development and the environment; Migration; Survey methodology; Poverty; Fertility

Stephen S. Birdsall, PhD, Professor of Geography
962-3877 or 962-3918; birdsall@email.unc.edu
Population redistribution; Migration

David M. Blau, PhD, Professor of Economics
966-3962; david_blau@unc.edu
Demand for and supply of quality in child care; Effects of child care costs and other factors on demand for child care; Influence of economic factors on retirement decisions; Changes in distribution of earnings

Ties Boerma, MD, PhD, Research Associate Professor of Maternal and Child Health; 966-1737; ties_boerma@unc.edu
Infant and child mortality; Maternal mortality; AIDS research; Family planning program assessment

Kenneth Bollen, PhD, Zachary Smith Professor of Sociology
962-7501 or 966-6835; bollen@unc.edu
Structural equation modeling; Statistics; Mortality; Fertility; Family planning programs

Pierre Buekens, PhD, Professor and Chairman of Maternal and Child Health
966-5981; pierre_buekens@unc.edu
Perinatal epidemiology; Evaluation of perinatal services; Minority health

Betty E. Cogswell, PhD, Associate Professor Emerita of Family Medicine 942-5289; betty_cogswell@unc.edu
Consumer perspectives on health care delivery; Family influences on fertility; Adolescent pregnancy; Women and health

William A. Darity, Jr., PhD, Cary C. Boshamer Professor of Economics
966-5392 or 966-2156; sandy_darity@unc.edu
Earnings and inequality; Underclass; North-south models of trade and growth; International inequality; Black family structure; Transfer programs and their impacts

William Dow, PhD, Assistant Professor of Health Policy and Administration
966-7384; will_dow@unc.edu
Economic determinants of health and mortality; Health and health care in developing

countries; Economics of aging

Glen H. Elder, Jr., PhD, Howard W. Odum Distinguished Professor of Sociology; 966-2831 or 966-6660; glen_elder@unc.edu
Studies of the life course, human development, and family change from longitudinal archival sources; Effects of family hardship; Demography of aging

Barbara Entwisle, PhD, Professor of Sociology
962-7003 or 966-1713; entwisle@unc.edu
Social and demographic change; Population and the environment; Socioeconomic determinants of fertility in less developed countries; Abortion and family planning analysis in Russia; Contraception in Thailand

Laurel A. Files, PhD, Associate Professor and Associate Chairman of Health Policy and Administration; Associate Dean for Academic Affairs of the Graduate School; 966-7353; laurel_files@unc.edu
Management; International population program management training; Strategic planning; Organization change and development

John W. Florin, PhD, Associate Professor of Geography
962-3879; john_florin@unc.edu
Population movement and medical geography; Historical American agriculture and agricultural population

David Guilkey, PhD, Professor and Chairman of Economics
966-5335 or 966-1733; david_guilkey@unc.edu
Econometrics; Statistical problems associated with the use of large survey data sets; Estimation methods for prediction; Structural models of contraceptive choice

John Gulick, PhD, Professor Emeritus of Anthropology
942-5289 (home)
Comparative studies of sex roles and fertility; Comparative studies of family planning; Urban anthropology

Guang Guo, PhD, Assistant Professor of Sociology
962-1246; guang_guo@unc.edu
Children, education, and poverty; Social demography; Statistical Methods

Carolyn Halpern, PhD, Assistant Professor of Maternal and Child Health
966-6873 or 966-4462; carolyn_halpern@unc.edu
Biosocial determinants of adolescent sexual behavior, risk-taking, and health; Intimate partner violence and sexual coercion

Kathleen Mullan Harris, PhD, Associate Professor of Sociology
962-1388 or 966-5560; kathie_harris@unc.edu
Demography of poverty; Family, poverty, and social policy; Women, work, and welfare receipt; Effects of parental involvement of child well-being; Contextual effects on adolescent risk behavior

Irva Hertz-Picciotto, PhD, Associate Professor of Epidemiology
966-7445 or 966-2838; irva_hertzp@unc.edu
Causes of pregnancy loss; Methods of analysis for studies of pregnancy loss; Body lead burdens and fetal development; Seasonality of SIDS deaths; Healthy worker survivor effect in occupational cohort studies

Jaroslav F. Hulka, MD, Professor Emeritus of Obstetrics and Gynecology and of Maternal and Child Health; 966-4850; jhulka@unc.edu
Laparoscopic techniques in methods of sterilization and treatment of infertility; Abortion accessibility and prevention

Sagar C. Jain, PhD, Professor of Health Policy and Administration; Clinical Professor of Psychiatry; 843-8619; sagar_jain@unc.edu
Health policy and management; Health and population training and education for developing countries

James H. Johnson, Jr., PhD, E. Maynard Adams Distinguished Professor of Geography and Adjunct Professor of Sociology and of Business Administration; Director, Urban Investment Strategies Center
962-2261; jim_johnson@unc.edu
Contemporary population redistribution trends; Inequality; Spatial demography of ethnic minorities; Urban poverty and public policy; Urban and social geography of the inner city; Shifts in welfare policy of Blacks; Urban poverty and public policy

Arne L. Kalleberg, PhD, Kenan Professor and Chairman of Sociology
962-0630; arne_kalleberg@unc.edu
Labor force; Organizations and occupation; Social, economic, and psychological factors affecting integration of work and family roles

William D. Kalsbeek, PhD, Professor of Biostatistics and Director, Survey Research Unit; 962-3249; bill_kalsbeek@unc.edu
Sampling survey methods; Demographic, family planning, contraceptive and HIV prevalence surveys; Sampling elusive populations

John D. Kasarda, PhD, Kenan Professor of Business Administration and of Sociology; Director, Kenan Institute of Private Enterprise and the Center for Competitiveness and Employment Growth of Kenan-Flagler Business School; 962-8201; john_kasarda@unc.edu
Urbanization and its effects on demographic and economic variables; Population redistribution and job creation policies in developing countries

Jay S. Kaufman, PhD, Assistant Professor of Epidemiology
966-7435; jay_kaufman@unc.edu
Health status variation by race; Social class; Cardiovascular disease

Milton Kotelchuck, PhD, Professor of Maternal and Child Health
966-5981; kotelchuck@unc.edu
Infant mortality reduction/racial disparities in infant mortality; Prenatal care utilization and efficacy; Migrant health; Nutritional factors in infant growth and development

Linda Lacey, PhD, Professor of City and Regional Planning
962-3983 or 966-1731; linda_lacey@unc.edu
Internal migration in West African countries; Women's roles in development; Population policy-making in Africa with regard to agriculture, housing, and fertility; Quantitative methods in Third World planning; Family planning program sustainability

Paul W. Leslie, PhD, Associate Professor of Anthropology
962-1564 or 966-6165; paul_leslie@unc.edu
Human ecology; Demographic anthropology; Fertility and population replacement in traditional societies; Population genetics; East Africa

Melinda S. Meade, PhD, Professor of Geography
962-3922; melinda_meade@unc.edu
Population geography; Human ecology and health; Medical geography; Microlevel population mobility

Ted Mouw, PhD, Assistant Professor of Sociology
962-5602; tedmouw@email.unc.edu
Labor markets and social inequality; Bilingualism and academic achievement; Trends in public opinion data on abortion

Thomas A. Mroz, PhD, Professor of Economics
966-5395 or 966-7142; mroz@unc.edu
Labor economics; Economic demography and historical economic demography; Econometric evaluation of life-cycle models; Impact of economic and demographic factors on fertility control and women's labor force activities; Longitudinal studies of China and Russia

Andrew F. Olshan, PhD, Associate Professor of Epidemiology
966-7424; andy_olshan@unc.edu
Etiology of birth defects and cancer in children; Effects of paternal exposures and maternal risk factors for adverse pregnancy outcome

Barry M. Popkin, PhD, Professor of Nutrition
966-1732; popkin@unc.edu
Social, demographic, and economic change and the nutrition transition; Economic and health-related implications of women's roles and time allocation; Nutritional effects of socioeconomic and related changes in China and Russia

Ronald R. Rindfuss, PhD, Distinguished Professor of Sociology
966-7779 or 966-5558; ron_rindfuss@unc.edu
Fertility; Population and the environment; Cohabitation, marriage, and divorce; Patterns of daycare use

Rachel A. Rosenfeld, PhD, Lara G. Hoggard Professor of Sociology
962-1272; rachel_rosenfeld@unc.edu
Influence of social stratification on career and job mobility, especially for women; Integration of work and family roles in advanced industrialized societies; Contemporary U.S. women's movement

Rhonda Ryznar, PhD, Assistant Professor of City and Regional Planning
962-4761; rhonda_ryznar@unc.edu
Geographic information systems; Population and the environment; Sustainable urban environments

David A. Savitz, PhD, Professor and Chairman of Epidemiology
966-7427; david_savitz@unc.edu
Development and application of epidemiological methods in studies of reproduction; Effects of exogenous agents on pregnancy outcomes; Preterm delivery

Anna Maria Siega-Riz, PhD, Assistant Professor of Maternal and Child Health;
962-8410 or 966-5984; am_siegariz@unc.edu
Maternal and child nutrition; Birth outcomes; Adolescent dietary habits; Reproductive epidemiology; Dietary trends among minorities in the United States

Earl Siegel, MD, Professor Emeritus of Maternal and Child Health and Clinical Professor of Pediatrics; 966-2017; earl_siegel@unc.edu
Fertility and perinatal health status; Pregnancy and childhood morbidity; Physical work stress during pregnancy and birth weight

Chirayath M. Suchindran, PhD, Professor of Biostatistics
966-7258 or 966-1723; suchindran@unc.edu
Mathematical demography; Models to study child spacing, contraceptive acceptance and breastfeeding effects on postpartum amenorrhea and conception rates in developing countries; Age of U.S. women at completion of childbearing; Infant mortality in North Carolina

Vaida D. Thompson, PhD, Professor of Psychology
962-5037; vaida_thompson@unc.edu

Attitudinal predictors of demographic behavior; Sexual behavior and self-esteem; Sociopsychological antecedents and consequences of migration; Consequences of family size and ordinal position; Social-psychological factors in behaviors relating to risk of AIDS

Boone A. Turchi, PhD, Associate Professor of Economics
966-5348 or 966-2837; *boone_turchi@unc.edu*

Household-level demographic and economic behavior; Modeling individual allocative decision such as reproductive decisions; Using microeconomic theory in demographic analysis such as studies of fertility intentions and family planning behavior in the U.S. and abroad

J. Richard Udry, PhD, Kenan Professor of Maternal and Child Health and of Sociology; 966-2829; *udry@unc.edu*
Interaction of biological and social factors in reproductive behavior; Biological and social factors in adolescent health and behavior; Biosocial correlates of women's sex roles

Peter R. Uhlenberg, PhD, Professor of Sociology
962-2398 or 966-7481; *peter_uhlenberg@unc.edu*
Demography of the family and of older populations; Historical changes in life-course patterns; Intergenerational relationships; Marriage and divorce; Policy on the aging

H. Wilbert Van der Klaauw, PhD, Associate Professor of Economics
966-5343; *vanderkl@email.unc.edu*
Life cycle labor supply and occupational choice decisions; Economic determinants of household formation and dissolution; Educational investment and productivity

Stephen J. Walsh, PhD, Professor of Geography
962-3867 or 966-2153; *walsh@geog.unc.edu*
Geographic information systems and spatial analysis applications in research

Thomas M. Whitmore, PhD, Associate Professor of Geography
962-3874; *whitmore@geog.unc.edu*
Demography and agriculture of pre-Columbian Amerindian groups; Cultural ecology; Demography

Namvar Zohoori, MD, PhD, Research Assistant Professor of Nutrition, UNC-CH; Senior Lecturer, Epidemiology Research Unit Tropical Metabolism Research Institute, Faculty of Medicine University of the West Indies, Jamaica; *namvar_zohoori@unc.edu*
Nutritional determinants of healthy aging; International nutrition; Nutritional status of elderly

Appendix I Recent Alumni of the CPC Postdoctoral Training Program

Below is a cross-section of postdoctoral fellows since 1994, the discipline and university where doctorate was received, CPC training dates, and current employment.

- Deborah Barrett** Sociology/Stanford Univ.; 1995-98
Postdoctoral Fellow, Globalization, Equity, and Democratic Governance Project, Center for International Studies, Duke Univ.
- Shelah Bloom** Population-International Health /Harvard Univ.; 1997-99 Research Associate, MEASURE Evaluation Project, CPC, UNC-CH
- Honggao Cao** Economics and Population Studies/Univ. of Chicago; 1997-98
Project Manager, Institute for Survey Research, Univ. of Michigan, Ann Arbor
- Karen Carver** Sociology and Demography/Univ. of Maryland; 1996-98
Assistant Professor of Sociology; Research Associate, Population Research Institute, Pennsylvania State Univ.
- Christopher Chan** Sociology/Harvard Univ.; 1995-97
Assistant Professor of Sociology, Florida State Univ.
- Arpita Chattopadhyay** Sociology/Brown Univ.; 1996-98
Assistant Professor of Sociology, Kansas State Univ.
- Hobart (Bo) Cleveland** Family Studies/Arizona Univ.; 1998-00
Assistant Professor of Criminal Justice, College of Urban Affairs, Univ. of Nevada, Las Vegas
- Ashwini Deshpande** Economics/Univ. of Delhi; 1998-00
Assistant Professor of Economics, Delhi School of Economics, Univ. of Delhi
- Rene Desiderio** Population and Development/Cornell Univ.; 1995-96
Project Advisor, Division for Arab States and Europe, UNFPA, New York
- James Elliot** Sociology/Univ. of Wisconsin; 1997-99
Assistant Professor of Sociology, Tulane Univ.
- Mark Foley** Economics/Yale; 1997-00
Assistant Professor of Economics, Davidson College
- Rhonda Gillette-Netting** Anthropology/Univ. of Arizona; 1996-98
Assistant Professor of Anthropology, Arizona Univ.
- Michelle Hindin** Sociology/Hopkins; 1999-00
Visiting Assistant Professor of Demography, Georgetown Univ.
- Grant Izmirlan** Mathematics/Univ. of Wisconsin; 1994-96
Senior Staff Fellow; Epidemiology, Demography, and Biometry Program; National Institute on Aging
- Kara Joyner** Sociology/Univ. of Chicago; 1996-98
Assistant Professor of Sociology, McGill Univ.
- Gayle Kaufmann** Sociology/Brown Univ.; 1996-99
Assistant Professor of Sociology, Davidson College
- Heather Koball** Sociology/Brown Univ.; 1997-99
Research Associate, Committee on National Statistics, National Academy of

Sciences, Washington, DC
Anna Madamba Sociology/Pennsylvania State Univ.; 1995–97
 Research Analyst, TIAA College Equity Retirement Fund, New York
Thomas McDade Anthropology/Emory Univ.; 1999-00
 Assistant Professor of Anthropology; Northwestern Univ.
R. Kelly Raley Sociology/Univ. of Wisconsin; 1994–96
 Assistant Professor of Sociology; Research Associate, Population Research Center,
 Univ. of Texas at Austin
Sudha Shreeniwas Sociology/Univ. of Michigan; 1998–99
 Research Associate, Center on Minority Aging, UNC-CH
Ilene Speizer Population Dynamics/Johns Hopkins Univ.; 1994–96
 Assistant Professor of International Health and Development, Tulane Univ.
Hiromi Taniguchi Sociology/Princeton Univ.; 1997-00
 Assistant Professor of Sociology, Univ. of Louisville, Kentucky
Heike Trappe Sociology/Max Planck Institute; 1994–96
 Research Scientist, Max Planck Institute for Human Development and Education,
 Berlin
Brenda Wilhelm Sociology/Univ. of Arizona; 1999-00
 Assistant Professor of Sociology, Mesa State College, Colorado
Fengyu Zhang Demography/Peking Univ.; 1997-99
 Research Associate, Institute for Public Policy, Duke Univ.

Appendix II

Recent Alumni of the CPC Predoctoral Training Program

Below is a cross-section of graduates since 1996, their department, date PhD was received, and current employment.

Cande Ananth, Epidemiology, 1996
 Instructor in Obstetrics, Gynecology and Reproductive Sciences at the Robert Wood Johnson Medical School, Univ. of Medicine and Dentistry of New Jersey
Gustavo Angeles, Economics, 1997
 Research Associate, MEASURE Project, CPC, UNC-CH
Harihar Bhattarai, Anthropology, 1996
 Adjunct Faculty Member, Department of Multidisciplinary Studies, Shaw Univ.
Judith Borja, Nutrition, 1998
 Research Associate, Office of Population Studies, Univ. of San Carlos, The Philippines
Jill Bouma, Sociology, 1999
 Assistant Professor, Department of Sociology, Berea College, Kentucky
Kathryn Curtis, Epidemiology, 1996
 Epidemiologist, Division of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, CDC
James Doherty, Health Policy and Administration, 1998
 Director of Health Economics for Pharmacia and Upjohn

Debra Donahoe, Sociology, 1997
 Postdoctoral Scholar, Princeton Univ.
Thomas Evans, Geography, 1997
 Assistant Professor of Geography, Indiana Univ.
Monica Gaughan, Sociology, 1998
 Director, Rich Foundation Urban Leadership Program; Assistant Professor of Sociology, Oglethorpe Univ., Atlanta, GA; Senior Research Associate at the Center for Science Policy Outcomes, Washington, DC
Xuguang Guo, Nutrition, 1998
 Research Associate Health Services Research, Research Triangle Park, NC
James Kirby, Sociology, 1999
 Research Fellow, Agency for Health Care Policy and Research (AHCPR), Department of Health and Human Resources, Washington, DC
Jeff Korte, Epidemiology, 1999
 Postdoctoral Fellow, Unit of Environmental Cancer Epidemiology, International Agency for Research on Cancer, WHO, France
Kristie Schatzberg Long Health Behavior & Health Education, 2000
 Postdoctoral Fellow and Research Associate, Department of Public Health Sciences, Wake Forest Univ. School of Medicine
Kate Macintyre, Health Policy and Administration, 1997
 Assistant Professor of International Health & Development, Tulane Univ.
Jeremy Marmer, Sociology, 1999
 Postdoctoral Fellow, Population Research Center, Univ. of Chicago
Laura Murphy, City and Regional Planning, 1998
 Adjunct Assistant Professor of International Health and Development, School of Public Health and Tropical Medicine, Tulane Univ.; and Research Assoc., Agricultural Colonization in the Ecuadorian Amazon Project, CPC, UNC-CH
Mabel Nyarango, Sociology, 1997
 Senior Lecturer, Faculty of Health Sciences Moi Univ., Eldoret, Kenya
Lisa Pastore, Epidemiology, 1997
 Postdoctoral Fellow, Department of Epidemiology, UNC-CH
Edward Powers, Sociology, 1998
 Assistant Professor of Sociology, Univ. of Central Arkansas
Yothin Sawandgee, Sociology, 1997
 Assistant Professor, Institute for Population and Social Research, Mahidol Univ., Thailand
Susan Short, Sociology, 1997
 Assistant Professor of Sociology, Brown Univ.
Irit Sinai, City & Regional Planning, 1998
 Research Associate, Georgetown Univ. Medical Center
Chuck Slusher, Economics, 1998
 Research Scientist, Battelle Center for Public Health Research and Evaluation, Seattle, Washington
Claire Viadro, Health Policy and Administration, 1998
 Research Associate, Lineberger Comprehensive Cancer Center, UNC-CH

Appendix III
Approved Population Courses

Notes

ANTH 255	Human Reproduction: Biocultural and Ecological Perspectives
BIOS 170	Demographic Techniques I
BIOS 271	Demographic Techniques II
BIOS 277	Mathematical Models in Demography
ECON 165	Economics of Population
ECON 180	Family Economics
ECON 265	Economics and Population
ECON 399	Economics and Demography of Aging
EPID 219	Perinatal Epidemiology
GEOG 145	Medical Geography
GEOG 150	Population Geography
HPAA 211	Population Policy and Program Development
MHCH 110	Demography of Women and Children in Developing Countries
MHCH 205	International Family Planning
MHCH 206	Perinatal Health Services
MHCH 222	Issues in International Maternal and Child Health
MHCH 230	Reproductive Health Policy
PLAN 124	Urbanization and Planning in the Third World
SOCI 212	Demography: Theory, Substance, Techniques, Part I
SOCI 213	Demography: Theory, Substance, Techniques, Part II
SOCI 263	Aging
SOCI 287	Migration and Population Distribution
SOCI 289	Socioeconomic Factors in Fertility
SOCI 290	Mortality: Social Demographic Perspectives
SOCI 326	Aging in Human Populations

Note:

- For **course descriptions**, check the UNC Graduate School Catalog: <http://www.unc.edu/res-aca/catalogs/gb/>.
- For **course reviews**, refer to: <http://www.unc.edu/student/ccreview/>
- Approved courses are not necessarily offered every year. Check with the **Directory of Classes** in order to plan ahead for your class schedules: See <http://www.ais.unc.edu/sis/clsched/csbhome.htm>