

Faculty Name

Phyllis Betts, Ph.D.

Faculty Title

Associate Professor/Director

Department and College

School of Urban Affairs and Public Policy, College of Arts and Sciences

Research Interests

Research interests: housing markets and neighborhoods; social inequality and income support policy; workforce development, women, and welfare reform; theories of social capital, social entrepreneurship, and the devolution/revolution in social problem-solving

Secondary: violence against women

Special perspectives: researcher-practitioner collaboration; data-driven community-based interventions and evaluation; community-based participatory research

I am a sociologist and founding director of the Center for Community Building and Neighborhood Action (CBANA) in the School of Urban Affairs and Public Policy at the University of Memphis. CBANA collaborates with the University's Shared Urban Data System (SUDS) to disseminate information to drive community change, and is the lead organization for The Urban Institute's National Neighborhood Indicators Partnership (NNIP) in Memphis; in conjunction with NNIP and SUDS, I am developing a multi-domain system of community indicators for tracking social change in Shelby County. My special emphasis is on neighborhood housing markets, mortgage lending, and foreclosure prevention. I also serve as the associate director of the Center for Research on Women, where my current research is on welfare reform and workforce development for women.

Funding Sources

The Brookings Institution, The Urban Institute, the Fannie Mae Foundation, HUD-HOPE VI, the Ford Foundation, Seedco Inc, and the Pew Charitable Trusts, the City of Memphis, The Urban Child Institute, the Community Foundation of Greater Memphis, the Assisi Foundation, the RISE Foundation, the Women's Foundation for a Greater Memphis, the National Science Foundation's Research Experience for Undergraduates and research grants from the National Institute of Justice.

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Faculty Name

David Cox, Ph.D.

Faculty Title

Professor/Director

Department

President's Office

Research Interests

My research through the years has focused on the following issues:

Interorganizational collaboration and administration

Community development (economic, social)

History, philosophy, and mechanics of community-higher education community building engagement

Urban processes:

 Urban governance structures

 National and local urban policy processes

Funding Sources

Henry J. Kaiser Family Foundation

Anne E. Casey Foundation

Carnegie Foundation

Rockefeller Foundation

U.S. Department of Housing and Urban Development

U.S. Department of Education

Seedco, Inc.

Memphis Division of Housing and Community Development

Memphis Housing Authority

LHS, Inc.

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Faculty Name

Eugene Eckstein, Ph.D.

Faculty Title

Chair/Professor

Department and College

Biomedical Engineering, Herff College of Engineering

Research Interests

Research interests focus on biomechanics of gait and joint motions; and particle motions in blood and other complex fluids

Funding Sources

Whitaker Foundation (recipient and reviewer).

NIH (currently Chair of the NIH-NCRR Special Panel for R21/R33 grants)

NSF (recent panels on computational mechanics, experimental studies, current NSF – subcontract via Engineering Research Center shared by Vanderbilt, Northwestern, U. TX, Austin, MIT).

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Faculty Name

Michael Ferkin, Ph.D.

Faculty Title

Associate Professor

Department and College

Biology, College of Arts and Sciences

Research Interests

My research involves the study of animal behavior. My students and I study the social and sexual behavior of animals from four different levels of analysis: mechanism, development, function, and evolutionary history. We have addressed questions regarding the role of olfactory communication in the expression of social and sexual behavior in small mammals, such as voles. We have made many important discoveries that have increased our understanding of the physiology and function of the behaviors that support social and sexual interactions in terrestrial mammals.

Funding Sources

My laboratory has been supported primarily through competitive grants from the National Science Foundation and National Institutes of Health. To date, I have been awarded over \$1.2 million dollars from these granting agencies.

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Faculty Name

Duane M. Giannangelo, Ph.D.

Faculty Title

Professor

Department and College

Instruction & Curriculum Leadership, College of Education

Research Interests

Currently my research interests are focusing on content knowledge of pre-service and in-service teachers and effectiveness of teacher preparation programs.

Funding Sources

Most recently, over the past 7 years, my funding source has been for service projects from the Federal Programs Office in the Tennessee Department of Education

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Faculty Name

Art Graesser, Ph.D.

Faculty Title

Chair/Professor

Department and College

Psychology, College of Arts and Sciences

Research Interests

My primary research interests are in cognitive science and discourse processing. More specific interests include question asking and answering, tutoring, text comprehension, inference generation, conversation, reading, education, artificial intelligence, and human-computer interaction. I have designed, developed, and tested computer technologies that integrate psychological research in learning, language, and discourse. These systems include AutoTutor, Coh-Metrix, HURA Advisor, Question Understanding Aid (QUAID), QUEST, and Point&Query. I am also chair of the Department of Psychology, Director of the Center for Applied Psychological Research, co-Director of the Institute for Intelligent Systems, chair of the Learning Technologies area of focus at the University of Memphis, and is affiliated with the Advanced Distributed Learning Workforce Co-Lab and the FedEx Institute of Technology.

Funding Sources

The primary funding sources have been National Science Foundation, the Office of Naval Research, and the Institute of Education Sciences. Other funding sources have been the US Census Bureau, National Institutes of Health, Army Research Institute, and some corporations.

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Faculty Name

Lee Grehan, Ed.D.

Faculty Title

Assistant Director

Department

Sparks Bureau of Business and Economic Research, Fogelman College of Business

Research Interests

I am Assistant Director of the Sparks Bureau and the Center. My academic research is focused on Tennessee community colleges, specifically in the areas of outcome measurement and economic and community development. Currently, I am involved in research focused on labor force preparedness needs and the development of education and training programs to assist workforce transitions. I currently participate in the statewide evaluation of programs funded under the federal Workforce Investment Act and act as a technical advisor to the State of Tennessee on data management and reporting issues.

Funding Sources

TN Department of Labor and Workforce Development

TN Department of Human Services

TN Department of Education

Shelby County Government

City of Memphis

Memphis Light Gas and Water

TN Department of Health

TN Council on Career and Technical Education

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Faculty Name

John R. Haddock, Ph.D.

Faculty Title

Professor

Department and College

Mathematical Sciences, College of Arts and Sciences

Research Interests

My mathematics research interests are dynamical systems and (delay) differential equations. A primary focus is on stability, instability, and general qualitative behavior. I am also interested in Science, Technology, Engineering, Mathematics (STEM) projects related to education: undergraduate; graduate; and K-12. My interests include: student learning; STEM pedagogies; recruiting and retention issues; and project dissemination, sustainability, and evaluation. I was a Program Director in the Division of Undergraduate Education at the National Science Foundation: August 16, 2004 – August 15, 2006.

Funding Sources

National Science Foundation and Tennessee Department of Education

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Faculty Name

Arleen A. Hill, Ph.D.

Faculty Title

Assistant Professor

Department and College

Department of Earth Sciences, College of Arts and Sciences

Research Interests

I am an Assistant Professor in the Department of Earth Sciences at the University of Memphis. My degrees are in Geology, Earth Science and Geography with a research and teaching focus in natural hazards. My research involves risk assessment and vulnerability science emphasizing decision-making and behavior in response to disasters. In a field where nature, society and technology interact, I work closely with colleagues from the natural and social sciences; engineers, and emergency managers to improve the integration of scientific methods across disciplinary boundaries. Currently I collaborate with hazards researchers at centers across the country and with colleagues in Europe and Japan as well. I am chiefly concerned with what makes places vulnerable to hazards, how that vulnerability can be effectively communicated to decision makers and the public at risk, and how that vulnerability can be reduced.

Funding Sources

Funding Sources:

Natural Hazards Research and Applications Information Center

Mid-America Earthquake Center

United States Geological Survey

United States Department of Homeland Security

United States Environmental Protection Agency

National Science Foundation

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Faculty Name

Stanley E. Hyland, Ph.D.

Faculty Title

Associate Professor and School Head, SUAPP

Department and College

Anthropology, School of Urban Affairs and Public Policy, College of Arts and Sciences

Research Interests

I am currently the Head of the School of Urban Affairs and Public Policy at the University of Memphis. Since coming to the University in 1976, I worked with numerous governmental agencies, nonprofits, and community based organizations. My research interests include neighborhood revitalization, community building, social entrepreneurship, participatory action research/evaluation and community economic development. I am involved in major community initiatives throughout Shelby County including UPTOWN, the University District, College Park, Lakeland, and Collierville.

I graduated from the University of Illinois at Urbana, with a Ph.D. in Anthropology in 1977. Since then I have been interested in conducting research with regard to community building initiatives, neighborhood connectedness and social networking. My book, **Community Building for the 21st Century** was recently released published by the School of American Research.

Funding Sources

Memphis Housing Authority, Baker Foundation, Memphis Division of Housing and Urban Development, United Way of the Mid-South, Kaufmann Foundation, Community Foundation of Greater Memphis, Shelby County Government, Urban Child Institute.

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Faculty Name

W. Richard Janikowski, JD

Faculty Title

Associate Professor and Director, Center for Community Criminology and Research

Department and College

Criminology and Criminal Justice, School of Urban Affairs and Public Policy, College of Arts and Sciences

Research Interests

My research interests focus on new directions in crime analysis and crime mapping. Of particular interest, has been research on gang violence and illegal gun possession and use. Closely connected to these issues, has been research directed at the development and formation of law enforcement and community partnerships directed at deterring violent crime. Additionally, we are studying community conditions and crime rates, with particular emphasis on the possible implications of the closing public housing accompanied by population dispersal on receiving communities. Additionally, a significant amount of effort has been directed at the development of shared data systems, including the Shared Urban Data System (SUDS) and the Community Safety Information System (CSIS), to facilitate inter-agency data exchange and analysis and community data access. Other interests have involved program evaluation of numerous criminal justice initiatives.

Funding Sources

These research areas have been primarily supported by funding from the U.S. Department of Justice's National Institute of Justice and the Bureau of Justice Assistance, the City of Memphis, Shelby County Government, the Urban Child Institute, the Plough Foundation, and the Assisi Foundation.

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Faculty Name

Hsiang-te Kung, Ph.D.

Faculty Title

Professor

Department and College

Earth Sciences, College of Arts and Sciences

Research Interests

My areas of research interest are in water resources, environment and natural hazards, and China.

Funding Sources

Previous and current funding sources: USGS, TEMA (FEMA), Department of Education.

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Faculty Name

Deborah L. Lowther, Ph.D.

Faculty Title

Associate Professor

Department and College

Instruction and Curriculum Leadership, College of Education
Center for Research in Educational Policy

Research Interests

My grant experience is focused on the field of educational technology practice and evaluation in K-12 environments. Through my work as the Senior Technology Researcher for the Center for Research in Educational Policy (CREP), I have visited thousands of K-12 classrooms. These experiences served as the basis for my role as lead developer of a widely used technology integration evaluation “toolkit” of validated data collection instruments. Among the most notable consumers of these instruments are the Florida Department of Education’s Leveraging Laptop program and the Michigan Department of Education’s Freedom to Learn Laptop Program.

- I am currently Co-Principal Investigator for the U.S. Department of Education's Institute of Education Sciences, Regional Educational Lab for Appalachia, Rigorous Research Study 2. This is a five-year (2006-2011) study to examine a statewide Kentucky initiative focused on providing a hybrid version of Kentucky Virtual High School’s online Algebra 1 course to 4,500 rural and/or low-income 9th grade students who performed below the state median in mathematics. I was also Principal Investigator for Professional Development for the US DOE Appalachian Technology in Education Consortium, which provided technical assistance to Kentucky, Tennessee, Virginia, and West Virginia from 2000-2005.

Funding Sources

Brazos-Sabine Connection/TLCF- Texas Department of Education
Tennessee Department of Education
U.S. Department of Education

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Faculty Name

Wasim Maziak, MD, PhD

Faculty Title

Research Associate Professor

Department and College

Department of Sports and Health Sciences, College of Education

Research Interests

Smoking, Asthma, environmental health, women's health.

I am an epidemiologist trained in clinical allergy and immunology. In 2002, in collaboration with University of Memphis and Virginia Commonwealth University, I established the Syrian Center for Tobacco Studies, a pioneer research and capacity building institution in the Middle East. The center provided some of the first data about smoking using the waterpipe, environmental health and exposures, as well as variety of basic population-based health and environmental indicators. I also have a continuing interest in childhood asthma that started with my work with the International Study on Asthma and Allergies in Children (ISAAC) in Muenster Germany. I am particularly interested in the hygiene hypothesis and its failure to explain certain trends in the asthma epidemic; such as the increase in asthma among children in inner US urban centers.

Funding Sources

Fogarty International Center/NIH, University of Muenster (Germany), International Cardiovascular Initiative in Developing Countries (IC health).

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Faculty Name

Danielle McNamara, Ph.D.

Faculty Title

Associate Professor

Department and College

Psychology, College of Arts and Sciences

Research Interests

The overarching theme of my research is to better understand cognitive processes involved in memory, knowledge acquisition, and reading, and to apply that understanding to educational practice by creating and testing educational technologies. The majority of my current research concerns reading comprehension and methods to improve deep-level comprehension of difficult texts. There are essentially two lines of that research that are defined by two technologies created in my laboratory: iSTART and Coh-Metrix. iSTART (Interactive Strategy Training for Active Reading and Thinking) is a reading strategy tutor that uses pedagogical agents to deliver automated, interactive training to use deep-level comprehension strategies. Coh-Metrix is a computational tool that uses parts of speech classifiers, syntactic parsers, and latent semantic analysis to provide over 200 indices of the cohesiveness and readability of any given text. Together these two tools (iSTART and Coh-Metrix) are aimed at either helping the reader to better understand poorly written/difficult text or help writers to improve the cohesion of their text and better match readers to text.

Funding Sources

These projects have been funded by the McDonnell Foundation, the National Science Foundation, and the Institute of Education Sciences.

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Faculty Name

D. Kimbrough Oller, Ph.D.

Faculty Title

Professor and Plough Chair of Excellence

Department

School of Audiology and Speech-Language Pathology

Research Interests

His research is broadly based in topics related to the acquisition of spoken language and its disorders. The focus, published in over 170 articles, includes early speech production, infant speech perception, pragmatics of communication, multilingualism, and the evolution of language. He has also studied groups with disorders of communication including, hearing impairment, Down syndrome, functional articulation disorders and autism. In intervention, his efforts include curriculum and device development in deaf education and artificial hearing. His infraphonological model of interpretation for infant vocal development is extensively presented in his solely authored book The Emergence of the Speech Capacity, from Lawrence Erlbaum (2000). His bilingualism and cross-linguistic research includes Language and Literacy in Bilingual Children (2002). His research in evolution of language is a growing focus, as illustrated in the volume, The Evolution of Communication Systems: A Comparative Approach (2004).

Funding Sources

His research has been funded since the early 1970's by various sources, including the National Institutes of Deafness and other Communication Disorders, the National Institutes of Child Health and Human Development, and the National Institutes of Mental Health.

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Faculty Name

Abby Parrill-Baker, Ph.D.

Faculty Title

Professor

Department and College

Chemistry, College of Arts and Sciences

Research Interests

I am a computational bioorganic chemist, with interests in computational and experimental studies of the structure, function and inhibition of phospholipid receptors, and enzymes that produce bioactive phospholipids. These targets are of therapeutic interest due to the role of these proteins in cancer, cardiovascular disease initiation, and immune function. I focus on homology modeling of protein structures and the use of computational methods to identify novel lead compounds from database searching methods. These activities have led to one provisional patent application. I also have experience in the use of circular dichroism and nuclear magnetic resonance spectroscopy for peptide characterization.

Funding Sources

I have obtained research support from NIH, the American Heart Association, and support for instrumentation and educational programs from NSF.

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Faculty Name

Evgueni Pinkhassik, Ph.D.

Faculty Title

Associate Professor

Department and College

Chemistry, College of Arts and Sciences

Research Interests/ Title of Research Activity

Nanothin surface-Mounted Polymer Films

This invention describes surface-mounted films produced by the polymerization initiated through chemical reaction between monomer molecules and surface. This chemical reaction may occur spontaneously under ambient conditions. This resulting film can coat the surface completely and film thickness can be controlled in a wide range from 2 nm to >100nm. Polymer films are crosslinked and are firmly bound to the surface. The outer surface of these films can be further functionalized.

Funding Sources

Federal Government, NSF

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Faculty Name

Leslie A. Robinson, Ph.D.

Faculty Title

Associate Professor

Department and College

Psychology, College of Arts and Sciences

Research Interests

My research focuses broadly on health risk behaviors among children and adolescents. Chief among these is tobacco use, and much of my work centers around methods for preventing cigarette smoking, factors that influence the onset of adolescent tobacco use, and the development of effective cessation programs for youth.

Funding

Over the past 10 years my work has been supported by approximately \$7 million in research grants from the National Institutes of Health, with specific funding from the NCI, NIDA, and NHLBI. In addition, I received a \$2.2 million dollar grant from the LHS Partnership for Women's and Children's Health, and smaller grants from the Memphis City Schools and the local Health Department.

Partnerships

I serve as an Executive Board member of the Center for Community Health and have established professional relationships with many of the other health research-related centers across the University of Memphis campus. For over 12 years I have maintained an active research collaboration with the Memphis City and Shelby County Schools. I also have ongoing collaborations with St. Jude's Children's Research Center, the University of Tennessee Department of Pediatric and Adolescent Medicine, and many other community organizations and institutions.

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Faculty Name

Stephen J. Ross, MFA

Faculty Title

Professor

Department and College

Communication, Communication and Fine Arts

Research Interests

The subjects of my most recent films have focused on race relations in the mid south - as seen through the 1968 Memphis Sanitation Workers Strike (AT THE RIVER I STAND); Negro League Baseball (BLACK DIAMONDS, BLUES CITY); and a 1940 demonstration of sharecroppers in Southeast Missouri (OH FREEDOM AFTER WHILE!). My current project is on the great nineteenth century American painter Winslow Homer.

Funding Sources

Humanities Tennessee (several times)

Southern Humanities Media Fund

Tennessee Art Commission

Scheidt Family Foundation

Memphis Community Foundation

Virginia Humanities Council

private individuals

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Faculty Name

Kenneth D. Ward, Ph.D.

Faculty Title

Associate Professor and Director, Center for Community Health

Department and College

Health and Sport Sciences, College of Education

Research Interests

My overarching research interest is behavioral science applications to understanding and treating health conditions and health risk factors. The major focus of my work is tobacco use prevention and cessation. Current studies include a clinical trial of community-based physical activity as an adjunctive treatment for smoking cessation; studies of the effects of tobacco use and physical activity on oxidative stress biomarkers; a program of research to combat tobacco use in the Middle East housed at the Syrian Center for Tobacco Studies (www.scts-sy.org) which includes anthropological, epidemiological, clinical laboratory, and intervention development studies; a study to develop an intervention to assist new mothers to reduce children's exposure to second-hand smoke, and a pilot study of proactive telephone cessation counseling with substance abuse clients. Other research interests include dietary and physical activity assessment and intervention; bone health and osteoporosis prevention; and psychosocial aspects of cardiovascular disease.

Funding Sources

These research areas have been funded primarily with grants from NIH, including NHLBI, NIAMS, and the Fogarty International Center. Other funding sources have included the American Heart Association, Robert Wood Johnson Foundation, and the local foundation, The Urban Child Institute.

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Faculty Name

Thad A. Wasklewicz, Ph.D.

Faculty Title

Associate Professor

Department and College

Earth Sciences – Geography, College of Arts and Sciences

Research Interests

My research has spanned a wide range of topics and geographic locations, but nearly all of the projects have shared two themes common to studies in contemporary earth system science. First, my work stresses the manners by which spatial patterns of geomorphic features interact with and constrain terrestrial processes. A majority of my NSF funded research has examined variability in alluvial fan development in arid lands in an attempt to quantitatively delineate the difference between alluvial fans generated from various processes. The second theme to my research centers on environmental change as it relates structures and functions in ecosystems. Earth system science plays an integral role in assessing environmental changes related to habitat functions and structures. Earth system scientists are thus increasingly being called upon to bring their expertise to bear on pressing environmental problems. To this end, several of my recent projects have used basic scientific research to address questions driven by management needs. A majority of my earlier research at the University of Memphis examines the impacts of engineered navigation and flood control measures on the functions and structure of the Mississippi River. This research has shown how the “natural” spatial variability of the Mississippi River’s hydrology and planform dimensions changed after the systematic emplacement of these engineered structures. The approach is by no means novel, but placing environmental change in spatial context shows how differently the Lower Mississippi River varies in relation to the Upper Mississippi River. Detailing these differences is critical because there is a longer history of remediation of the engineered solutions on the Upper Mississippi River.

Funding Sources

Research funding has been received through the National Science Foundation, Nature Conservancy, Arizona Game and Fish Department, and the Japanese Society for the Promotion of Science

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