

BIOGRAPHICAL SKETCH

NAME	POSITION TITLE
Kevin M. Kelly	Associate Research Scientist
eRA COMMONS USER NAME	Adjunct Associate Professor

EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
The University of Iowa, Iowa City, IA	B.A.	1977	Anthropology
University of Urbana, Champaign, IL	A.M.	1980	Anthropology
University of Urbana, Champaign, IL	Ph.D.	1988	Anthropology

A. Positions and Honors.**Positions:**

1988-91 Assistant Research Scientist, Dept of Otolaryngology, University of Iowa, Iowa City, IA
1988-91 Adjunct Assistant Professor, Dept of Anthropology, University of Iowa, Iowa City, IA
1991-94 Research Scientist, Advanced Surgical Institutes, Medical City, Dallas, Hospital, Dallas, TX
1991-97 Research Associate, Dept of Anthropology, Southern Methodist University, Dallas, TX
1994-96 Senior Scientist/Biostatistician, Dept of Clinical Research, Medical City Dallas Hospital, Dallas, TX
1996 Supervisor/Biostatistician, Dept of Clinical Research, Columbia Hospital at Medical City Dallas, Dallas TX
1996-98 Data Base Analyst, Dept of Preventive Medicine, University of Iowa College of Medicine, Iowa City, IA
1996-present Adjunct Associate Professor, Dept of Anthropology, University of Iowa, Iowa City, IA
1998-present Associate Research Scientist, Dept of Occupational/Environmental Health, University of Iowa College of Public Health, Iowa City, IA
2001-present Adjunct Associate Professor, Dept of Community/Behavioral Health, University of Iowa College of Public Health, Iowa City, IA
2004-present Adjunct Associate Professor, Dept of Occupational/Environmental Health, University of Iowa College of Public Health, Iowa City, IA

Honors:

1977 - B.A. with Honors, University of Iowa, Iowa City, IA
1993 - Fellow, American Anthropological Association
1993 - Elected Member, Plastic Surgery Research Council

B. Selected Peer-Reviewed Publications.

Reynolds SJ, Merchant JA, Stromquist AM, Burmeister LF, Taylor C, Lewis MQ, Kelly KM. Keokuk County Rural Health Study: Self report of use of pesticides and protective equipment. J Agric Safety Health Special Issue (1):67-77, 1998.
Taylor CD, Reynolds SJ, Stromquist A, Merchant J, Zwerling C, Kelly K. Environmental conditions in the homes of a rural Iowa county. J Agric Safety Health 5:407-416, 1999.
Littlefield TR, Kelly KM, Pomatto JK, Beals SP. Multiple-birth infants at a higher risk for development of deformational plagioccephaly. Pediatrics 103:565-569, 1999.

- Kelly KM, Littlefield TR, Pomatto JK, Ripley CE, Beals SP, Joganic EF. Importance of early recognition and treatment of deformational plagiocephaly with orthotic cranioplasty. *Am Cleft Palate Craniofac J* 36:127-130, 1999.
- Kelly KM. Malaria and immunoglobulins in Pacific prehistory. *Am Anthropol* 101:806-809, 1999.
- Kelly KM, Littlefield TR, Pomatto JK, Manwarring KH, Beals SP. Cranial growth unrestricted during treatment of deformational plagiocephaly. *Pediatric Neurosurgery* 30: 193-199, 1999
- Terrell JE, Kelly KM, Rainbird P. Foregone conclusions? In search of "Austronesians" and Papuans". *Curr Anthropol* 42:97-124, 2001.
- Zwerling C, Merchant JA, Nordstrom DL, Stromquist AM, Burmeister LM, Reynold SJ, Kelly KM. Risk factors for injury in rural Iowa. *Am J Prev Med* 20:230-233, 2001.
- Littlefield TR, Kelly KM, Pomatto JK, Beals S. Multiple-birth infants at higher risk for development of deformational plagiocephaly II: Is one twin at greater risk? *Pediatrics*. 109:19-25, 2002.
- Turvey C, Stromquist A, Kelly K, Zwerling C, Merchant J. Financial loss and suicidal ideation in a rural community sample. *Acta Psychiatrica Scandinavica*. 106:373-380, 2002.
- Merchant JA, Stromquist AM, Kelly KM, Zwerling C, Reynolds SJ, Burmeister LF The epidemiology of chronic disease and injury in an agricultural county: The Keokuk County Rural Health Study. *J Rural Health*. 18:521-535, 2002.
- Reynolds SJ, Thorne PS, Donham KJ, Croteau EA, Kelly KM, Lewis D, Whitmer M, Heederik DJJ, Douwes J, Connaughton I, Koch S, Malmberg P, Larsson BM, Milton DK. Comparison of endotoxin assays using agricultural dusts. *Am Ind Hyg Assoc J*. 63:430-438, 2002.
- Park, H, Reynolds, SJ, Kelly, KM, Stromquist, AM, Burmeister, LF, Zwerling, C and Merchant, JA. Characterization of agricultural tasks performed by youth in the Keokuk County Rural Health Study. *Appl Occ Environ Hyg* 18(6): 418-429, 2003.
- Littlefield, TR, Kelly, KM, Pomatto, JK and Cherney, JC. Infant car seats, carriers, bouncy seats and swings: Their role in deformational plagiocephaly. *J Prosthet Orthot*. 15: 102-106, 2003.
- Beals, SP, Golden, KA, Basten, ML and Kelly KM. Strength performance of the pectoralis major muscle following subpectoral placement of mammary implants. *Aesthet Surg J*. 23:92-97, 2003.
- Littlefield, TR, Kelly, KM, Cherney, JC, Beals, SP and Pomatto, JK. Development of a new three-dimensional cranial imaging system. *J Craniofacial Surgery* 15:175-181, 2004.
- Chrischilles, E, Ahrens, R, Kuehl, A, Kelly, K, Thorne, P, Burmeister, L and Merchant, J. Asthma prevalence and morbidity among rural Iowa schoolchildren. *J Allergy and Clin Immun* 113: 66-71, 2004.
- Littlefield TR and Kelly KM. Deformational plagiocephaly: recommendations for future research. *J Prosthet Orthotics*. 16 Supplement: S59-S62. 2004.
- Littlefield TR, Saba, NM, Kelly KM. On the Current Incidence of Deformational Plagiocephaly: An estimation based on prospective registration at a single center. *Semin Pediatr Neurol*. 11:301-304, 2004.
- Littlefield, TR, Cherney, JC, Luisi, JL, Beals, SP, Kelly, KM and Pomatto, JK. Comparison of plaster casting versus 3D imaging for treatment of plagiocephaly. *Cleft Palate Craniofac J*. 42: 157-164. 2005.
- Merchant JA, Naleway AL, Svendsen ER, Kelly KM, Burmeister LF, Stromquist AM, Taylor CD, Thorne PS, Reynolds SJ, Sanderson WT, Chrischilles EA. Asthma and Farm Exposures in a Cohort of Rural Iowa Children. *Environ Health Perspect*. 113:350-356, 2005.
- Flamme GA, Mudipalli R, Reynolds S, Kelly K, Stromquist AM, Zwerling C, Burmeister L, Pens S-C, Merchant J. Prevalence of hearing impairment in a rural Midwestern cohort: Estimates from the Keokuk County Rural Health Study, 1994-1998. *Ear Hear*. 26:350-360, 2005.
- Reynolds SJ, Milton DK, Heederik D, Thorne PS, Donham KJ, Croteau EA, Kelly KM, Douwes J, Lewis D, Whitmer M, Connaughton I, Koch S, Malmberg P, Larsson B-M, Deddens J, Saraf A, Larsson L. Interlaboratory evaluation of endotoxin analyses in agricultural dusts – comparison of LAL assay and mass spectrometry. *J Environ Monit*. 7:1371-1377, 2005
- Pomatto JK, Calcatera J, Kelly KM, Beals SP, Littlefield TR. A study of family head shape: environmental influences alter cranial shape. *J Clinical Pediatrics*. 45:55-63, 2006.
- Sanderson WT, Madsen MD, Rautiainen R, Kelly KM, Zwerling C, Taylor CD, Reynolds SJ, Stromquist AM, Burmeister LF, Merchant JA. Tractor Overturn Concerns in Iowa: Perspectives from the Keokuk County Rural Health Study. *J Agric Safety Health*. 12:71-81, 2006.
- Thorne PS, Adamcakova-Dodd A, Kelly KM, O'Neill ME, Duchaine C. Metal working fluid with mycobacteria and endotoxin Induces hypersensitivity pneumonitis in mice. *Am J Respir Crit Care Med*. In press, 2005.

C. Research Support.ACTIVE

1U50/OH07548-01 (Merchant) 09/30/01-09/29/06
(continuation of center begun
09/30/90)

CDC/NIOSH
Great Plains Center for Agricultural Health
To conduct multidisciplinary research; to develop and evaluate novel disease and injury prevention models and outreach intervention programs in Federal Region VII; to train health professionals; to provide technical assistance and consultation to Federal Region VII; and to maintain and strengthen linkages with agricultural health and safety professions in the state, the region, nationally, and internationally.

Keokuk County Rural Health Study
(Merchant, PI; K Kelly, Programmer & Co-Investigator)
To provide technical assistance and consultation, training opportunities, and conducts numerous projects in the areas of respiratory disease, injury, environmental assessment, mental health, dermatitis, and other health outcomes.

Evaluation of Organic Dust Aerosols
(O'Shaughnessy, PI; K Kelly, Data Analyst)
The primary goals of this project are to evaluate new methods for measuring inhalable particulates, endotoxins, and glucans/ergosterols that can be used to help establish occupational exposure guidelines for complex organic dusts in swine, poultry, and dairy environments, and to evaluate and develop correction factors for direct-reading aerosol instruments that can be readily used by practitioners for interventions.

1 R01 ES11392-01 (Thorne) 09/30/01-07/31/06

NIEHS
Exposure Intervention in a Rural Pediatric Asthma Cohort (Investigator)
This study will test the efficacy of an intervention that includes a household hygiene educational intervention, professional super cleaning, booster cleaning, and integrated pest control against a minimal intervention in the control group.

COMPLETED

2 P30 ES05605-11 (Thorne) 09/29/90-03/31/04

NIEHS
Environmental Health Science Research Center
The main goal of the EHSRC is to promote research interactions among environmental health researchers at the UI, enhancing ongoing environmental health research and facilitating initiation of new collaborative and interdisciplinary environmental health research.

Environmental Assessment Facility (Programmer)
To enhance research in the EHSRC through cost-effective consolidation of resources, facilitation of multidisciplinary interactions, and provision of state-of-the-art exposure assessment services.

Inhalation Toxicology Facility (Programmer)
To provide the facilities and expertise necessary to enhance the productivity and quality of funded research projects and pilot grants.

DE-FC03-00EH00025 Amendment 2 (Fuortes) 08/01/00-07/31/05

US Department of Energy
Combined Phase I and II: Burlington Atomic Energy Commission Plant--Former Worker Program
(Database Analyst)
The goal of the project is to identify and locate those individuals who were employed by the AEC and IAAP in order to offer them medical screenings and assist in the process of filing claims under the Energy Employees Occupational Illness Compensation Program.

MFK 8233400 (Thompson) 02/11/02-03/01/03

Principal Investigator/Program Director:

American Cancer Society

Pilot Study of Provider Colorectal Cancer Screening Practices in Iowa (Co-Investigator)

This research effort will develop the methodology to determine provider colorectal cancer screening practices and their variation by practice location.

5 P01 ES09607-03 and R826711-03 (Chrischilles)

11/01/98-10/31/03

NIH-NIEHS and US EPA

Airway Disease in Children from Rural Communities (Programmer)

To investigate the etiology and pathogenesis of airway disease in children from rural communities.