OMB No. 0925-0001/0002 (Rev. 08/12 Approved Through 8/31/2015)

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.  
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NAME: Jeffrey Roth

eRA COMMONS USER NAME (credential, e.g., agency login): jffroth

POSITION TITLE: Research Professor

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

| INSTITUTION AND LOCATION | DEGREE  (if applicable) | Completion Date  MM/YYYY | FIELD OF STUDY |
| --- | --- | --- | --- |
| Brooklyn College, Brooklyn, NY | B.A. | 06/1962 | European Literature |
| Indiana University, Bloomington, IN | M.A. | 06/1964 | Comparative Literature |
| University of Florida, Gainesville, FL | Ph.D. | 12/1987 | Foundations of Education |
|  |  |  |  |

# A. Personal Statement

# B. Positions and Honors

# Positions and Employment

* 1. Affiliate Assistant Professor, Social and Psychological Foundations of Education, College of Education, University of Florida, Gainesville, FL
  2. Research Assistant Professor, Department of Pediatrics, College of Medicine, University of Florida, Gainesville, FL

1999-2011 Research Associate Professor, Department of Pediatrics, College of Medicine, University of Florida, Gainesville, FL

2011- Research Professor, Department of Pediatrics, College of Medicine, University of Florida, Gainesville, FL

Other Experience and Professional Memberships

1998-2003 Member, Southern Society of Pediatric Research

2002- Member, Academic Pediatric Association

2012- Member, American Pediatric Society

**Honors**

2001 Faculty Research Day Award (University of Florida College of Medicine)

# C. Contribution to Science

1. My first publications traced improvements in mortality and morbidity among infants benefitting from innovative treatments delivered at regionalized neonatal intensive care centers in Florida. These infants were among the first beneficiaries of surfactant and steroids. These articles documented the trade-off between increasing survival of extremely low birth weight infants and children’s learning deficits measured at elementary school.
2. Resnick MB, Roth J, Ariet M, Carter RL, Emerson JC, Hendrickson JM, Packer AB, Larsen JJ, Wolking WD, Lucas M, et al. Educational outcome of neonatal intensive care graduates. Pediatrics. 1992;89(3):373-8. PMID: 1741207
3. Roth J, Resnick MB, Ariet M, Carter RL, Eitzman DV, Curran JS, Cupoli JM, Mahan CS, Bucciarelli RL. Changes in survival patterns of very low birth weight infants from 1980 to 1993. Arch Pediatr Adolesc Med. 1995;149(12):1311-7. PMID: 7489066
4. Resnick MB, Gomatam SV, Carter RL, Ariet M, Roth J, Kilgore KL, Bucciarelli RL, Mahan CS, Curran JS, Eitzman DV. Educational disabilities of neonatal intensive care graduates. Pediatrics. 1998;102(2 Pt 1):308-14. PMID: 9685431
5. Resnick MB, Gueorguieva RV, Carter RL, Ariet M, Sun Y, Roth J, Bucciarelli RL, Curran JS, Mahan CS. The impact of low birth weight, perinatal conditions, and sociodemographic factors on educational outcome in kindergarten. Pediatrics. 1999;104(6):e74. PMID: 10586008
6. In collaboration with economists and biostatisticians, our data center further documented both short- and long-term outcomes of infants treated in neonatal intensive care units. These studies established that prematurity induces subtle deficits that hamper behavioral and cognitive development.
   1. Roth J, Figlio DN, Chen Y, Ariet M, Carter RL, Resnick MB, Morse SB. Maternal and infant factors associated with excess kindergarten costs. Pediatrics. 2004;114(3):720-8. PMID: 15342845
   2. Figlio DN, Guryan J, Karbownik K, Roth J. Long-term Cognitive and Health Outcomes of School-Aged Children Who Were Born Late-Term vs Full-Term. JAMA Pediatr. 2016 Jun 6. PMID: 27271240.
   3. Garfield CF, Karbownik K, Murthy K, Falciglia G, Guryan J, Figlio DN, Roth J. Educational Performance of Children Born Prematurely. JAMA Pediatr. 2017;171(8):764-770. PMID: 28604933
   4. Figlio DN, Freese J, Karbownik K, Roth J. Socioeconomic status and genetic influences on cognitive development. Proc Natl Acad Sci U S A. 2017 Nov 13. pii: 201708491 PMID: 29133413
7. Currently serving as mentor to an environmental epidemiologist on a K01 award, our team has explored the effects of exposure to air pollution on birth outcomes. In a series of coordinated papers, we have documented how airborne toxicants, notably particulate matter with aerodynamic diameter less than2.5 μm, adversely affect pregnant women and infants.
   1. Xu X, Hu H, Ha S, Roth J. Ambient air pollution and hypertensive disorder of pregnancy. J Epidemiol Community Health. 2014;68(1):13-20. PMID: 24022815
   2. Ha S, Hu H, Roussos-Ross D, Haidong K, Roth J, Xu X. The effects of air pollution on adverse birth outcomes. Environ Res. 2014;134:198-204. PMID: 25173052
   3. Ha S, Hu H, Roussos-Ross D, Haidong K, Roth J, Xu X. Ambient air pollution and hypertensive disorders of pregnancy: A systematic review and meta-analysis. Atmos Environ. 2014;97:336-345. PMID: 25242883
   4. Ha S, Hu H, Mao L, Roussos-Ross D, Roth J, Xu X. Potential selection bias associated with using geocoded birth records for epidemiologic research. Ann Epidemiol. 2016;26(3):204-11 PMID: 26907541

**Complete List of Published Work in MyBibliography:**

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1NSXusg575AY/bibliography/49486871/public/?sort=date&direction=ascending.>

# D. Research Support

**Ongoing Research Support**

58803881 Figlio (PI) 07/01/16-06/30/18

Northwestern University

National Center for Analysis of Longitudinal Data in Educational Research

The goal of this project is to capitalize on state administrative datasets to examine the effects of policies and practices on student learning gains.

Role: Collaborator

**Completed Research Support**

MED145 Maldonado-Molina (PI) 01/15/13-06/30/16

Florida Agency for Health Care Administration

Evaluation of Florida’s Medicaid Family Planning Waiver

The goal of this project is to determine whether participants in Florida’s Medicaid Family Planning Waiver program demonstrate fewer repeat pregnancies and longer interbirth intervals than women who were eligible for the program but who did not participate.

Role: Co-PI

AP0016403-PROJ000424 Roth (PI) 08/10/11-07/31/14

Northwestern University

Secondary and postsecondary pathways to labor market and success: A research program to improve policy/practice

The goal of this project is to examine the long-run effects of participation in preschool, the role of school practices and policies in mitigating obstacles to learning associated with birth complications, economic disadvantage, and maternal, paternal and neighborhood factors that influence academic performance.

Role: PI

Project # 00101288 Roth (PI) 06/1/12-05/31/14

Virginia Commonwealth University

Prenatal Insurance, Prenatal Care and Early Life Health among the children of Black Immigrants

The goal of this project is to examine whether differences in prenatal care utilization explain disparities in infant health outcomes between black immigrant, non-black immigrant and native-born black groups?

Role: PI

COQ-RC Roth (PI) 07/01/12-06/30/13

Florida Department of Health

Early Steps Data Advice and Technical Assistance

The goal of this project is to provide real time tracking of assessments and services provided to infants and toddlers birth through age three with special health care needs and their families.

Role: PI

COQ-QN Roth (PI) 07/01/12–06/30/13

Florida Department of Health

Children’s Medical Services’ Regional Perinatal Intensive Care Centers Data System

The goal of this project is to provide real time tracking of obstetrical services to women identified as having a high-risk pregnancy and neonatal intensive care services to critically ill/low birth weight newborns.

Role:

PIR305A60018 Figlio, (PI) 09/01/06-06/30/11

U.S. Department of Education

Center for Analysis of Longitudinal Data in Education Research (CALDER).

The goal of this project was to develop, test, and disseminate new approaches to improve teaching and learning, and ultimately student achievement.

Role: Co-PI