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### BIOGRAPHICAL SKETCH

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NAME Meghea, Cristian Ioan eRA COMMONS USER NAME: MSUMEGHEA	POSITION TITLE Assistant Professor
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EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.*)

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Babes-Bolyai University, Cluj-Napoca, Romania	BA	06/1998	Economics
Maxwell School, Syracuse University	PhD	06/2004	Economics

#### A. Personal Statement

I am an NIH-funded Assistant Professor in the College of Human Medicine at Michigan State University, and a Visiting Professor at the School of Public Health, Babes-Bolyai University, Cluj-Napoca, Romania. I am a global health researcher with expertise in maternal and child health, health services research, and health economics. My research interests are focused on using the period during and around pregnancy as a window of opportunity for improving maternal and child health.

The long term goal of my research program is to develop, implement, and disseminate effective and sustainable interventions to prevent and reduce smoking in families over the reproductive life span. I am the Principal Investigator of a 5-year NIH-funded K01 career development project: the International Research Scientist Development Award from Fogarty International Center. I am also leading a funded postnatal relapse smoking prevention trial (PRISM) in Cluj-Napoca, Romania. In addition, I completed in 2010 a two-year research project (SPRO) in Cluj-Napoca, Romania, recruiting a large sample of pregnant mothers, investigating smoking and nicotine addiction during pregnancy in relation to associated risk factors.

In Michigan, I am the Principal Investigator of a quasi-experimental evaluation of the effects of Medicaid's enhanced prenatal program in Michigan on maternal and infant health. In addition, I am a Co-Investigator on an R01 NIH randomized trial testing the effectiveness of a cancer education intervention, and a Co-Investigator on an R18 AHRQ-funded project demonstrating a redesigned perinatal system of care for Medicaid-insured women. Of additional relevance are my quantitative skills and data analysis expertise, a direct result of my graduate training in Economics.

## **B. Positions and Honors.**

### **Positions and Employment**

- 1999 – 2001 Teaching Assistant, Economics Department, Syracuse University, Syracuse, NY,  
2001 – 2003 Research Assistant, Center for Policy Research, Syracuse University, Syracuse  
2004 – 2006 Senior Researcher, American College of Radiology, Reston, VA, USA  
2006 – Pres. Assistant Professor, Institute for Health Policy, Michigan State University,  
2007 – Pres. Associate Researcher, Center for Health Policy and Public Health, Institute for Social Research,  
Babes-Bolyai University, Cluj-Napoca, Romania  
2010 – Pres. Assistant Professor, Institute for Health Policy and Department of Obstetrics, Gynecology and  
Reproductive Biology, Michigan State University, East Lansing, MI, USA

### **Other Experience and Professional Memberships**

- 1995 – 1998 The International Association of Students in Economics and Management  
2004 – 2009 American Public Health Association (APHA) Individual Membership  
2004 – 2009 International Health Economics Association (IHEA) Individual Membership  
2004 – 2009 Academy Health Individual Membership  
2005 – 2009 Ad hoc Statistical Reviewer, American Journal of Roentgenology (the premier professional  
journal in the field of radiology)  
2011-Pres. Ad hoc Reviewer, Addictions, European Journal of Public Health, American Journal of Public  
Health

### **Honors**

- 2003-2004 Dissertation fellowship, Center of Retirement Research of Boston College  
2002-2003 Research grant, Syracuse University Economics Department  
1999-2004 Merit scholarship from Syracuse University. Five years graduate school tuition  
1999 Merit scholarship from Central European University, Budapest, Hungary. Two years graduate  
school tuition and stipend [declined].

## **C. Selected peer-reviewed publications (in chronological order, from 28 peer-review publications).**

### **Most relevant**

1. Holtrop J.S., **Meghea, C.I.**, Raffo, J.E., Biery, H.L., Chartkoff S.B., Roman, L.A. (2010) Smoking among Pregnant Women with Medicaid Insurance: Are Mental Health Factors Related? *Maternal and Child Health Journal*. 14(6): 971-977
2. Raffo JE, Roman LA, **Meghea C.I.**, Zhu Q. (2010). Psychological and physical abuse among pregnant women in a Medicaid-sponsored prenatal program. *Public Health Nursing*. 27(5): 385-398
3. Roman, L., **Meghea, C.I.**, Raffo, J., Biery, L., Chartkoff, S., Zhu, Q., Moran, S., Summerfelt, T. (2010). Who Participates in State Sponsored Medicaid Enhanced Prenatal Services? *Maternal and Child Health Journal*. 14 (1): 110-120
4. **Meghea C.I.**, Rus D, Dirlu IA. (2010). Characteristics and Health Behaviors of Pregnant Women in Romania. *Gineco.ro*; 6(21): 166-171
5. **Meghea C.I.**, Rus D, Rus IA, Summers Holtrop J, and Roman L. (2012) Smoking during pregnancy and associated risk factors in a sample of Romanian women. *European Journal of Public Health*. 22(2):229-33. doi: 10.1093/eurpub/ckq189. Epub 2010 Dec 15
6. Roman, L., Raffo, J., and **Meghea, C.I.** (2012) Maternal perceptions of help from home visiting by nurse-community health worker teams. *American Journal of Public Health* 102(4):643-5. doi: 10.2105/AJPH.2011.300455. Epub 2012 Feb 16
7. **Meghea C.I.**, Li B., Zhu Q., Raffo JE., Lindsay JK., Moore JS, Roman LA. (2013) Infant health effects of a nurse - community health worker home visitation program: a randomized controlled trial. *Child: Care, Health, and Development*. 39(1): 27-35

8. Raffo JE, Gary M, Forde GK, **Meghea C.I.**, Roman LA. Physician awareness of enhanced prenatal services for Medicaid-insured pregnant women. *Journal of Public Health Management & Practice*. 2013 May. Epub ahead of print
9. **Meghea C.I.**, Raffo JE, Zhu Q, Roman LA. Medicaid Home Visitation and Maternal and Infant Healthcare Utilization. *American Journal of Preventive Medicine*. 2013 October. 45(4): 441-447.
10. Roman LA, Estes T, Hamade H, Penner L, **Meghea C.I.**, Williams KP. Understanding individual, provider and system risk factors for breast and cervical cancer among underserved Black, Latina, and Arab women. *Journal of Women's Health*. 2013 Nov 27. [Epub ahead of print]
11. Roman LA, Raffo JE, Zhu Q, **Meghea C.I.**. A Statewide Medicaid Enhanced Prenatal Care Program: Impact on Birth Outcomes. *JAMA Pediatrics*. January 2014 Online First
12. **Meghea C.I.**, Raffo JE, VanderMeulen P, Roman LA. (2013) Moving Towards Evidence-Based Federal Healthy Start Program Evaluations: Accounting for Bias in Birth Outcomes Studies. *American Journal of Public Health*. February 2014, Vol. 104, No. S1, pp. S25-S27.

**Additional publications of importance to the field (in chronological order)**

1. **Meghea C.I.**, Roman LA, Biery L, Summers JS. (2008) Maternal and Child Health in Low Income Families. *New Directions in Family Research* (Whitten PS, Bokemeier JL, Fitzgerald HE, eds.), Michigan State University Family Research Initiative
2. Williams KP, Roman LA, **Meghea C.I.**, Penner L, Hammad A, Gardiner J. (2013) Kin Keeper<sup>SM</sup>: Design and Baseline Characteristics of a Community-Based Randomized Controlled Trial Promoting Cancer Screening in Black, Latina, and Arab Women. *Contemporary Clinical Trials*. 34(2): 312-319
3. Ford S, **Meghea C.I.**, Estes T, Hamade H, Lockett M, Williams KP. Kin Keeper<sup>SM</sup> Prevention Intervention: An Evaluation of Intervention Fidelity in African American, Latina, and Arab Women. *Health Educ Res*. 2013 Oct 11. [Epub ahead of print]

**D. Research Support**

**Ongoing Research Support**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------|
| <p>1K01TW009654-01A1 (NIH)<br/>Fogarty International Center<br/><u>Family Smoking Cessation in Romania Using Pregnancy as a Window of Opportunity.</u> The research purpose of this career development award is to adapt, enhance, and test the implementation feasibility and initial efficacy, in Romania, of an evidence-based pregnancy and postnatal couple intervention for smoking cessation.<br/>Role: PI</p>                                                 | <p>Meghea ( PI)</p> | <p>12/1/2014 – 11/30/2019</p> |
| <p>Executive Unit for Financing Higher Education,<br/>Research, Development and Innovation, Romania<br/><u>Postnatal smoking relapse, its associated risk factors, and a proactive sustainable preventive intervention. (PRISM)</u> The purpose of this project is to design and implement a randomized trial intervention to prevent smoking relapse in a sample of Romanian new mothers who smoked and quit early during pregnancy.<br/>Role: PI</p>                | <p>Meghea ( PI)</p> | <p>4/1/2013 – 12/31/2015</p>  |
| <p>Michigan Department of Community Health<br/><u>Maternal Infant Health Program Quasi-Experimental Study</u><br/>The purpose of the project is to provide a quasi-experimental evaluation of the effects of the MIHP program in Michigan on maternal and infant health.<br/>Role: PI</p>                                                                                                                                                                             | <p>Meghea (PI)</p>  | <p>10/1/2011 – 9/30/2015</p>  |
| <p>1R18 HS20208-01A1 (AHRQ)<br/><u>Demonstration of a Community System of Care for Medicaid-insured Pregnant Women</u><br/>The purpose of this research is to refine, implement, test and disseminate a community Perinatal System of Care that will improve 1) population risk screening, early access to care, care coordination, and utilization of services; 2) cost efficiency; and 3) health outcomes in Medicaid insured pregnant women and their infants.</p> | <p>Roman (PI)</p>   | <p>8/1/2012 – 3/31/2017</p>   |

Role: Co-I

1 R01 NR011323-01 (NINR)

Williams (PI)

9/13/2010-6/30/2015

Kin Keeper: Reducing Disparities through Cancer Literacy and Screening

The purpose of this randomized trial study is to test the effectiveness of a community based intervention (Kin Keeper SM Cancer Prevention Intervention) delivered by Black, Latina and Arab community health workers who teach breast and cervical cancer literacy to women and their female family members. In addition, we will assess rates of healthcare utilization and cost among women the Kin Keeper SM model and the comparison group.

Role: Co-I

W. K. Kellogg Foundation

Vander Muelen (PI) 6/1/2011 – 5/30/2016

Strong Families, Healthy Families – Healthy Start

This project addresses racial disparities in birth outcomes and improve infant health through three inter-connected approaches: 1) Expansion of Healthy Start; 2) Implementation of Healthy Kent 2020 Infant Health Implementation Team (IHIT) activities to reduce infant mortality and promote coordination across multiple sectors; 3) Partner with Michigan State University to conduct an in-depth analysis of the program's effectiveness and cost-benefit.

Role: Evaluator

**Completed Research Support**

Ministry of Education, Research and Youth, Romania

Meghea (PI)

06/01/08 – 05/31/10

Maternal and Child Health in Romania: A study on smoking during pregnancy, depression, stress, other risk factors, and a smoking cessation intervention (SPRO)

This project assessed the prevalence, severity, and the associated risk factors of smoking during pregnancy in Romania. It also implemented and evaluated the effects of a targeted anti-smoking intervention among pregnant women.

Role: PI

Michigan Department of Community Health

Roman, L (PI)

10/1/06 - 9/30/11

Michigan Families Medicaid Project

This was a joint project with Michigan Department of Community Health to develop a new system of care for the Medicaid-insured pregnant women and infants in Michigan

Role: Co-PI