

# AMY H. AUCHINCLOSS

## CONTACT INFORMATION

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Department of Epidemiology and Biostatistics, School of Public Health  
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## EDUCATION

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PHD	University of Michigan, Ann Arbor, MI	Epidemiology (2006) Dissertation nominated for university-wide "Outstanding Dissertation Award" title: <i>Neighborhood Features and Insulin Resistance</i>
MPH	Columbia University, New York, NY	Population and Family Health
BA	Wesleyan University, Middletown, CT	History

## ACADEMIC AND RESEARCH APPOINTMENTS

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ASSISTANT PROFESSOR <i>Dept. of Epidemiology and Biostatistics, School of Public Health, Drexel University</i>	SEP 2008 - PRESENT <i>Philadelphia, PA</i>
ASSISTANT RESEARCH SCIENTIST <i>Dept. of Epidemiology, School of Public Health, University of Michigan</i>	NOV 2007 – AUG 2008 <i>Ann Arbor, MI</i>
POSTDOCTORAL FELLOW <i>Dept. of Epidemiology, School of Public Health, University of Michigan</i>	SEP 2006 – OCT 2007 <i>Ann Arbor, MI</i>
RESEARCH ASSISTANT <i>Dept. of Epidemiology, School of Public Health, University of Michigan</i>	JAN 2003 - AUG 2006 <i>Ann Arbor, MI</i>
RESEARCH SCIENTIST (SUPERVISING) <i>New York City Department of Health, Division of Environmental Health, Lead Poisoning Prevention Program</i>	JAN 2001 - DEC 2002 <i>New York, NY</i>
RESEARCH FELLOW <i>National Center for Health Statistics, Centers for Disease Control and Prevention</i>	AUG 1998 - NOV 2000 <i>Hyattsville, MD</i>
RESEARCH ASSISTANT <i>Dept. of Population and Family Health, School of Public Health, Columbia University</i>	JAN 1997 - AUG 1997 <i>New York, NY</i>

## COMMUNITY APPOINTMENTS

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PROGRAM EVALUATOR <i>Brooklyn Perinatal Network, Inc.</i>	1997 - 1998 <i>Brooklyn, NY</i>
HARM REDUCTION PROGRAM COORDINATOR <i>Greenwich House Inc., Methadone Treatment Program and HIV/AIDS Services</i>	1994 - 1996 <i>New York, NY</i>

## RESEARCH GRANTS

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### CURRENT

#### *Neighborhoods and cardiovascular risk in a multiethnic cohort*

Role on Grant: Co-Investigator (PI: Ana Diez Roux, MD, PhD, University of Michigan)

Dates: July 2009 - June 2014

Sponsor: NIH National Heart, Lung and Blood Institute; R01 HL071759 \$811,314 (subcontract funding \$302,131)

#### *Modeling Obesity Through Simulation*

Role on Grant: Co-Investigator (PI: David Shoham, PhD, Loyola University Chicago)

Dates: August 2009 – July 2014

Sponsor: NIH Institute of Child and Human Development; U01 HD061978 \$389,909 (subcontract \$134,886)

### COMPLETED

#### *Novel approaches to understanding environmental determinants of health behaviors: using agent-based models to study the relation between spatial access to healthy food stores and diet*

Role on Grant: Principal Investigator

Dates: May 2007 – Aug 2008

Sponsor: Robert Wood Johnson, Health and Society Scholars Program; \$37,000

#### *Prospective Study of Atherosclerosis, Clinical Cardiovascular Disease, and Long-Term Exposure to Ambient Particulate Matter and Other Air Pollutants in a Multi-Ethnic Cohort*

Role on Grant: subcontract investigator

Dates: September 2007 - Aug 2008

Sponsor: EPA (G3F10287, STAR)

#### *Neighborhoods and cardiovascular risk in a multiethnic cohort*

Role on Grant: Co-Investigator

Dates: September 2007 - Aug 2008

Funder: NIH/NHLBI (R01 HL71759-01)

#### *Geo-Spatial Concentration of Univ. of Michigan Interdisciplinary Center on Social Inequality, Mind & Body*

Role on Grant: Co-Investigator

Dates: September 2007 - Aug 2008

Funder: NIH (1 R24 HD047861)

## PUBLICATIONS

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### PUBLISHED/IN PRESS/UNDER REVIEW

1. **Auchincloss AH**, Riolo RL, Diez Roux AV, Brown DG, Cook J. An agent-based model to study the relationship between spatial access to healthy food stores and diet. *Under review*.
2. O'Neill MS, Diez Roux AV, **Auchincloss AH**, Shen M, Lima JA, Polak JF, Kaufman JD, Jacobs Jr. DR. Long-term exposure to airborne particles and arterial stiffness in the Multi-Ethnic Study of Atherosclerosis. *Under review*.
3. Park SK, **Auchincloss AH**, O'Neill MS, Prineas R, Correa JC, Keeler J, Barr RG, Kaufman J, Diez Roux AV. Particulate Air Pollution, Metabolic Syndrome and Heart Rate Variability: the Multi-Ethnic Study of Atherosclerosis (MESA). *Under review*.
4. **Auchincloss AH**, Diez Roux AV, Shen M, Bertoni AG, Carnethon MR, Mujahid MS. Neighborhood resources for physical activity and healthy foods and incidence of type 2 diabetes. *Archives of Internal Medicine*. 2009; 169(18):1698-1704.
5. Diez Roux AV, **Auchincloss AH**. Understanding the social determinants of behaviors: can new methods help? *Int J Drug Policy*. 2009;20:227-9.
6. **Auchincloss AH**, Diez Roux AV. A new tool for epidemiology: the usefulness of dynamic agent-models in understanding place effects on health. *Am J Epidemiol*. 2008;168(1):1-8
7. **Auchincloss AH**, Diez Roux AV, Dvonch JT, Brown PL, Barr RG, Daviglius ML, Goff Jr. DC, Kaufman JD, O'Neill MS. Associations between recent exposure to ambient fine particulate matter and blood pressure in The Multi-Ethnic Study of Atherosclerosis (MESA). *Environmental Health Perspectives*. 2008;116(486-491).
8. Diez Roux AV, **Auchincloss AH**, Franklin TG, Raghunathan T, Barr RG, Kaufman J, Astor B, Keeler J. Long-term exposure to ambient particulate matter and prevalence of subclinical atherosclerosis in the Multi-Ethnic Study of Atherosclerosis. *Am J Epidemiol*. 2008;167(6):667-675.
9. O'Neill MS, Diez Roux AV, **Auchincloss AH**, Franklin TG, Jacobs DR Jr, Astor BC, Dvonch JT, Kaufman J. Airborne particulate matter exposure and urinary albumin excretion: The Multi-Ethnic Study of Atherosclerosis. *Occup Environ Med*. 2008;65(8):534-540.
10. **Auchincloss AH**, Diez Roux AV, Brown DG, Erdmann CA, Bertoni AG. Neighborhood resources for physical activity and healthy foods and their association with insulin resistance. *Epidemiology*. 2008;19(1):146-157.
11. Tehranifar P, Leighton J, **Auchincloss AH**, Faciano A, Alper H, Paykin A, Wu S. Immigration and risk of childhood lead poisoning: findings from a case control study of New York City children. *Am. Journal of Public Health*. 2008;98(1):92-97.
12. **Auchincloss AH**, Diez Roux AV, Brown DG, Raghunathan TE, Erdmann CA. Filling the gaps: spatial interpolation of residential survey data in the estimation of neighborhood characteristics. *Epidemiology*. 2007;18(4):469-478.

13. **Auchincloss AH**, Diez Roux AV, Brown DG, O'Meara ES, Raghunathan TE. Association of insulin resistance with distance to wealthy areas: the Multi-Ethnic Study of Atherosclerosis. *Am J Epidemiol.* 2007;165(4):389-397
14. Diez Roux AV, **Auchincloss AH**, Astor B, Barr RG, Cushman M, Dvorchak T, Jacobs DR, Kaufman J, Lin X, Samson P. Recent exposure to particulate matter and C-reactive protein concentration in the Multiethnic Study of Atherosclerosis (MESA). *Am J Epidemiol.* 2006;164(5):437-448.
15. **Auchincloss AH**, Hadden W. Poverty and place: the health effects of rural-urban residence and concentrated poverty. *Journal of Rural Health.* 2002;18:319-336.
16. **Auchincloss AH**, Van Nostrand JF, Ronsaville D. Access to health care for older persons in the United States: personal, structural, and neighborhood characteristics. *Journal of Aging and Health.* 2001;13:329-354.

## IN PREPARATION

17. **Auchincloss AH**, Diez Roux AV, Mujahid MS, Michos E, Shen M, Whitt-Glover M. Is there a positive association between neighborhood health-promoting resources and lower obesity risk (the Multi-Ethnic Study of Atherosclerosis)? In preparation.
18. Raghunathan TE, Diez Roux AV, Chen W, Barr RG, **Auchincloss AH**. Spatio-temporal methods for the estimation of long term exposure to ambient particulate matter in the MESA cohort. In preparation.
19. Do DP, Diez Roux AV, Ranjit N, Seeman T, **Auchincloss AH**, Shea SJ, Merkin SS. Differences in cortisol profile across neighborhood context in a population-based sample: The Multi-Ethnic Study of Atherosclerosis. In preparation.

## SCIENTIFIC REPORTS

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1. Leighton J, **Auchincloss AH**, Gurnitz K, et. al. (2002). Surveillance of childhood blood lead levels, 1995-2000. New York City Department of Health. [Public report series]

## CONFERENCE PRESENTATIONS

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1. Auchincloss AH. *Neighborhood Influences on Weight Gain in the Multiethnic Study of Atherosclerosis* [Invited oral presentation]. Annual scientific meeting of the Obesity Society. Phoenix, AZ; October 2008.
2. Auchincloss AH. *An agent-based model to study the relationship between spatial access to healthy food stores and diet* [Oral presentation]. Society of Epidemiologic Research. Chicago, Illinois; June 2008.
3. Auchincloss AH, Diez Roux AV. *Investigating the spatial determinants of obesity and diabetes in the MESA Neighborhood Study* [Oral presentation]. McGill Health Challenge Think Tank: Linking Biology to Behavior and Society to Enhance Obesity Prevention; Geo-Spatial Research Workshop. Montreal, Canada; 2007.

4. Auchincloss AH, Diez Roux AV, Brown DG, O'Meara ES, Raghunathan TE. *Insulin resistance is positively associated with area poverty: the Multi-Ethnic Study of Atherosclerosis* [Oral presentation]. Annual conference on Cardiovascular Disease Epidemiology and Prevention, American Heart Association. Phoenix, AZ, March 2006.
5. Goovaerts P, Auchincloss AH, Diez Roux AV. *Performance comparison of spatial and space-time interpolation techniques for prediction of air pollutant concentrations in the Los Angeles area* [Oral presentation]. Annual conference of the International Congress for the Society for Mathematical Geology. Liège, Belgium, September 2006.
6. O'Neill MS, Auchincloss AH, Dvonch JT, Jacobs DJ, Kaufman JD, Astor BC, Diez-Roux AV. *Short-term air pollution exposure and urinary albumin excretion in the Multi Ethnic Study of Atherosclerosis (MESA)* [Poster]. Annual conference of the International Society for Environmental Epidemiology. Johannesburg, SA, September 2005
7. Auchincloss AH, Hadden W. *The health effects of rural-urban residence and concentrated poverty* [Poster]. Annual meeting of the Population Association of America. Washington, D.C., March 2002.
8. Hadden W, Auchincloss AH. *The health effects of racial and economic segregation*. [Poster, blue-ribbon award winner]. Annual meeting of the Population Association of America. Washington, D.C., March 2001.
9. Auchincloss AH, Hadden W. *Poverty and place: the effects of unequal social and economic development on health* [Oral presentation]. Annual meeting of the Eastern Sociological Society. Baltimore, MD, March 2000.
10. Auchincloss AH, Van Nostrand JF, Ronsaville D. *Access to health care for older persons in the United States personal, structural, and neighborhood characteristics* [Poster]. National Conference on Health Statistics. Washington, DC, August 1999.

## PROFESSIONAL SERVICE

### Grant Reviewer:

National Institute of Environmental Health Sciences (NIEHS) & The National Center for Environmental Research of the U.S. Environmental Protection Agency (EPA) Review Committee, "P01 and P20, Centers for Children's Environmental Health and Disease Prevention Research"; July 2009.

National Institute of Health, Special Emphasis Panel/Scientific Review Group ZHD1 DSR-M. "R01, Innovative Computational and Statistical Methodologies for the Design and Analysis of Multilevel Studies on Childhood Obesity"; February 2009.

U.S. Environmental Protection Agency, EPA STAR Grant T1 Panel: "Innovative Approaches to Particulate Matter Health, Composition, and Source Questions"; January 2008.

The College Board (supported by The Robert Wood Johnson Foundation) review panel for "Young Epidemiology Scholars Competition"; Feb-Mar 2007.

Ad-Hoc Peer-Reviewer for scientific journals:

*American Journal of Epidemiology, Circulation, Environmental Health Perspectives, International Journal of Epidemiology, Journal of Epidemiology and Community Health, Social Science and Medicine, Archives of Internal Medicine, Health & Place*

Service at community based organizations:

Legal Services Volunteer, HIV/AIDS Service Center; Washington DC; 2000  
Rape Crisis Counselor, St. Vincent's Hospital Emergency Department; New York, NY; 1998  
Health Educator, The Door: center for youth services; New York, NY; 1994-1995  
Assistant Coordinator, Women's Health Clinic; New York, NY; 1994-1995  
Needle-Exchange Volunteer, A.D.A.P.T. drug abuse services; Brooklyn, NY; 1993

**PROFESSIONAL MEMBERSHIP**

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American Public Health Association, Society for Epidemiologic Research, International Epidemiological Association