

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

## COMMUNITY APPOINTMENTS

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

## SERVICE – INTERNAL, DREXEL UNIVERSITY

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Department of Epidemiology & Biostatistics Website Redesign. Supervised six-month augmentation of the department's website. Recruited and supervised 2 part-time students, Nov-Apr 2010.

Department of Epidemiology & Biostatistics Food Policy. Initiated review and recommendations for the department's food purchase policy, Feb-June 2010.

Member, Epidemiology Curriculum/Course Planning, Feb-June 2010.

Member, Education Committee. School of Public Health Strategic Plan. Dec 2008-May 2009 (met 11 hours).

Preliminary assessment of steps needed to offer University-wide Geographic Information System support (centralized purchase/site license as well as technical support).

Worked with Information Resources and Technology to assess server capabilities at School of Public Health and Center City student computing needs.

Ad-hoc member of Community Based Masters Program Oversight Committee.

Ad-hoc member of Drexel's "Sustainability Council" and advocated internally and externally for bicycle parking at Center City Campus.

## SERVICE – EXTERNAL

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### Committees

Participant, Envision September Summit. National Collaborative on Childhood Obesity Research (NCCOR). Washington, DC. Sept 2010.

Participant, Research advisory team to plan evaluations of Philadelphia's Communities Putting Prevention to Work Nutrition and Physical Activity Initiative (an initiative funded by Centers for Disease Control and Prevention funded under the American Recovery and Reinvestment Act Prevention and Wellness Initiative). Philadelphia Department of Public Health, Philadelphia, PA; April-June 2010.

Participant, "Multi-level agent-based modeling and population health." Confluence team convened by Altarum Institute, Ann Arbor, MI, May 2010.

Participant, National Fresh Food Evaluation Panel. The Food Trust and Fresh Food Financing Initiative. Philadelphia, PA. June-Sept 2009.

### Journal Review

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

### Grant Review

National Center on Minority Health and Health Disparities (NCMHD); review panel for "R01,

Applications that propose innovative translational and trans-disciplinary interventions on social determinants of health"; July 2010.

Heart and Stroke Foundation of Canada /Canadian Institutes of Health Research, "Peer Review Panel: Built Environment: Population Health Intervention Research"; March 2010.

National Institute of Environmental Health Sciences (NIEHS) & The National Center for Environmental Research of the U.S. Environmental Protection Agency (EPA); review panel for "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; review panel for "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.

## **TEACHING**

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### **Lead instructor - Drexel University**

PBHL 832: Epidemiology PhD Seminar II, 2009-present (Fall, Winter, and Spring quarters)

### **Guest lecturer - Drexel University**

AY 2008-2009

Grand Rounds for Medical Toxicology Fellows, Emergency Medicine Division of Medical Toxicology, College of Medicine

PBHL 647: Occupational & Environmental Epidemiology.

AY 2009-2010

Research Presentation to Dean's Advisory Council. April 2010

Making Scientific Posters. Workshop for 2nd year MPH students. May 2010.

Departmental presentation to admitted MPH students. Admitted Students Day; May 2010.

AY 2010-2011

PBHL 671: Theory and Practice of Community Health Promotion

## **EXTERNAL ADVISING/MENTORING**

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### **NIH K Grant Research Mentor**

Ka'imi A. Sinclair, PhD, MPH, 2010-present (University of Hawaii, School of Medicine Honolulu)

Project Title: Examining neighborhood risk factors for diabetes in The Hawaii Multiethnic Cohort Study

### **Doctoral Level Research Sponsor - Drexel University**

Kristen Johnson, M.P.H., PhD Research Assistantship, Summer 2010

Julia Kuder, M.A., PhD Research Assistantship AY 2010-2011

### **Masters Level Research Sponsor - Drexel University**

Lu Mao, M.S., Biostatistics Research Assistantship, AY 2008-2009 and 2009-2010

Victoria Pham, M.P.H. Research Assistantship AY 2009-2010, Practicum Sponsor Spring 2010

Jennifer Awakuni, M.P.H. Research Practicum Sponsor, Spring 2010

Jessica Leitzsch, M.P.H. Research Assistantship Summer 2010 and AY 2010-2010, Practicum Sponsor Spring 2010

### **2nd Year M.P.H. Student Advisor - Drexel University**

Marisa Kaplan 2009-2010 (Nominated for exemplary thesis)

Noreen Almazora 2009-2010

Baudelio Gutierrez 2010-11

Jessica Leitzsch 2010-11

Pam Phojanakong 2010-11

Melanie Sharkey 2009-2011 (Executive)

Lauren Davis 2010-2012 (Executive)

### **1st Year M.P.H. Student Advisor - Drexel University**

3 students including 1 student with special needs AY 2009-2010

3 students AY 2010-2011

## **PUBLICATIONS**

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### **Peer Review**

1. **Auchincloss AH**, Mujahid MS, Shen M, Michos ED, Whitt-Glover MC, Diez Roux AV. Neighborhood health-promoting resources and obesity risk (the Multi-Ethnic Study of Atherosclerosis). Under review at *Obesity*.
2. **Auchincloss AH**, Gebreab SY, Mair C, Diez Roux AV. A review of spatial methods in epidemiology, 2000-2010. *Annual Review of Public Health*, forthcoming.
3. Yang Y, Diez Roux AV, **Auchincloss AH**, Rodriguez DA, Brown DG. Exploring walking differences by socioeconomic status using a spatial agent-based model. *Health & Place*, forthcoming.
4. Rosso AL, **Auchincloss AH**, Michael YL. The urban built environment and mobility in older adults: a comprehensive review. *Journal of Aging Research* 2011; 816106. Epub Jun 30 (PMCID: PMC3134204)
5. **Auchincloss AH**, Riolo RL, Cook J, Brown DG, Diez Roux AV. An agent-based model of income inequalities in diet in the context of residential segregation. *Am J Prev Med*. 2011;40(3):303-311 (PMCID: 21335261)
6. Yang Y, Diez Roux AV, **Auchincloss AH**, Rodriguez DA, Brown DG. A spatial agent-based model for the simulation of adults' daily walking within a city. *Am J Prev Med*. 2011;40(3):353-361 (PMCID: 21335269)
7. Do DP, Diez Roux AV, Hajat A, **Auchincloss AH**, Merkin SS, Ranjit N, Shea S, Seeman T. Circadian rhythm of cortisol and neighborhood characteristics in a population-based sample: The Multi-Ethnic Study of Atherosclerosis. *Health & Place*. 2011;17(2):625-632. (PMID: 21292535)
8. O'Neill MS, Diez-Roux AV, **Auchincloss AH**, Shen M, Lima JA, Polak JF, Barr RG, Kaufman K, Jacobs DR Jr.. Long-term Exposure to Airborne Particles and Arterial Stiffness: The Multi-Ethnic

Study of Atherosclerosis (MESA). *Environ Health Perspect*. 2011 (advance access PMID: 21245016)

9. Park SK, **Auchincloss AH**, O'Neill MS, Prineas R, Correa JC, Keeler J, Barr RG, Kaufman JD, Diez Roux AV. Particulate Air Pollution, Metabolic Syndrome and Heart Rate Variability: the Multi-Ethnic Study of Atherosclerosis (MESA). *Environ Health Perspect*. 2010 118:1406-141. (PMID: 20529761)
10. **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. (PMCID: 19822827).
11. Diez Roux AV, **Auchincloss AH**. Understanding the social determinants of behaviors: can new methods help? *Int J Drug Policy*. 2009;20:227-9. (PMCID: 19109002)
12. **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 (PMCID: 18480064)
13. **Auchincloss AH**, Diez Roux AV, Dvorchak JT, Brown PL, Barr RG, Davignus 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). *Environ Health Perspect*. 2008;116(486-491). (PMCID: 2291007)
14. 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. (PMCID: 18227099)
15. O'Neill MS, Diez Roux AV, **Auchincloss AH**, Franklin TG, Jacobs DR Jr, Astor BC, Dvorchak 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. (PMCID: 18032533)
16. **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. (PMCID: 18091002)
17. 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. (PMCID: PMC2156073)
18. **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. (PMID: 17568220)
19. **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 (PMCID: 17148499)
20. 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. (PMCID: 16751260)
21. **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. (PMCID: 12135153)

22. **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. (PMCID: 11813730)

### **Scientific Reports**

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]

### **Selected Media Coverage**

Interviews and associated press coverage regarding 2010 Archives of Internal Medicine article and 2008 Epidemiology article. Coverage by Reuters, US News, and other online publications.

## **RESEARCH GRANTS**

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### **Current**

*Center for Integrative Approaches to Health Disparities - Revision to Support Environmental Health Disparities Research (P60)*

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

Dates: Sep 2011 – Aug 2012

Sponsor: NIH/NIMHD (subcontract funding \$305,968)

*Neighborhoods and Cardiovascular Risk in a Multi-Ethnic 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)

*Nutrition Labeling at Full-Service Restaurants*

Role on Grant: PI

Dates: May 2011-March 2012

Sponsor: Funds directed from Centers for Disease Control and Prevention (direct costs \$97,340)

### **Submitted 2010-2011 Academic Year**

*Center for Integrative Approaches to Health Disparities - Revision to Support Environmental Health Disparities Research (P60)*

Role on Grant: Co-Investigator

Lead PI: Ana Diez Roux (University of Michigan)

Sponsor: NIH/NIMHD (P60 RFA-MD-11-008)  
Requested Amount: \$198,037 (direct) , total sponsor funding \$305,968)

*Evaluation of an urban greenway's effect on physical activity*

Role on Grant: Principal Investigator  
Sponsor: NIH /NCI (R01 PA-10-027)  
Requested Amount: \$2,273,600 (direct) for 9/1/2011-8/31/2016 (5 years)  
Status: To be determined

*Evaluation of an urban greenway's effect on physical activity and crime*

Role on Grant: Principal Investigator  
Sponsor: Robert Wood Johnson Foundation, Active Living - Rapid Response  
Requested Amount: \$150,000 (direct and indirect) for 1/1/2011-12/30/2011 (12 months)  
Score: Sponsor does not score submissions. Ranked 3rd out of 10. Not funded.

**Submitted 2009-2010 Academic Year**

*Impact of Restaurant Menu Labeling on Food Sales, Menu Options and Consumer Responses*

Role on Grant: Co-Investigator (PI: Karen Glanz, PhD, University of Pennsylvania)  
Sponsor: NIH/NCI (R01 PA-10-027)  
Requested Amount: \$1,543,000 (direct)

*A health impact assessment of a proposed riverfront greenway zoning ordinance*

Role on Grant: Co-Investigator  
Lead PI: Yvonne Michael  
Sponsor: Robert Wood Johnson and PEW Charitable Trust  
Requested Amount: \$65,000 (direct and indirect)  
Status: Sponsor does not score submissions. Not funded

*A spatial agent-based model for the simulation of adults' daily walking in urban areas*

Role on Grant: Consultant  
Lead PIs: Ana Diez Roux (University of Michigan) / Yong Yang  
Sponsor: NIH (R21 PAR-08-224)  
Requested Amount: \$275,000 (direct)

**Submitted 2008-2009 Academic Year**

*Developing and Implementing Heatwave Interventions for Vulnerable Populations*

Role on Grant: Co-Investigator (PI: Sabrina McCormick, PhD, University of Pennsylvania)  
Sponsor: CDC National Center for Environmental Health (Climate Change: Environmental Impact on Human Health)  
Status: Not scored. Not funded.

*Trans-disciplinary research to examine associations between transportation-related policies and physical activity and obesity*

Role on Grant: Primary Investigator  
Sponsor: NIH NCI (R21 PA-08-193)  
Status: Not scored. Not funded.

*Evaluation of menu-labeling at Philadelphia's major chain fast-food restaurants*

Role on Grant: Primary Investigator

Sponsor: Robert Wood Johnson Foundation (Healthy Eating Research / Childhood Obesity)  
Status: Sponsor does not score submissions. Not funded.

*Evaluation of menu-labeling at Philadelphia's major chain fast-food restaurants*

Role on Grant: Primary Investigator  
Sponsor: NIH/NICHD (AARA Challenge)  
Status: Impact/Priority Score= 20, Percentile= 2. Not funded.

**Completed**

*Influence of Calorie Labeling on Food Choice*

Role on Grant: Consultant (PI: Brian Elbel, PhD, New York University)  
Dates: August 2009-July 2011  
Sponsor: NIH National Heart, Lung, and Blood Institute; 1R01HL095935-01 (consultancy \$3,000)

*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

*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  
Sponsor: 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  
Sponsor: NIH (1 R24 HD047861)

**PROFESSIONAL MEMBERSHIP**

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

**PROFESSIONAL CONFERENCE PRESENTATIONS / INVITED TALKS**

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1. Auchincloss AH. Neighborhood Risks for Obesity and Diabetes. [Invited talk] Regional and National Food Systems Research Meeting; Delaware Valley Regional Planning Commission, Philadelphia, PA. September 2010.
2. Auchincloss AH, Diez Roux AV, Mujahid MS, Shen M, Michos ED, Whitt-Glover MC. Associations

between lower obesity risk and environments for walking and healthy eating (MESA) [Oral presentation]. Society of Epidemiologic Research. Seattle, WA; June 2010.

3. Auchincloss AH. Data analysis for built environment research. [Workshop]. 2010 Built Environment Assessment Training (BEAT) Institute; Philadelphia, PA; June 2010.
4. Auchincloss AH. Agent-based modeling primer and applications to health disparities. [Invited talk & Workshop]. University of Pennsylvania, Health and Society Scholars; Philadelphia, PA; March 2010.
5. Auchincloss AH. Do features of residential neighborhoods alter risk for type 2 diabetes? [Invited talk]. Albert Einstein Medicine Grand Rounds; Philadelphia, PA; March 2010.
6. Auchincloss AH. Using complex systems models to understand health behaviors within neighborhood contexts [Invited talk]. Applying Complex Systems Approaches to the Complex Processes of Behavior Change; a meeting funded by the NIH Office of Behavioral and Social Science Research; Ann Arbor, MI; January 2010.
7. 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.
8. 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.
9. Auchincloss AH, Diez Roux AV. Investigating the spatial determinants of obesity and diabetes in the MESA Neighborhood Study [Invited oral presentation]. McGill Health Challenge Think Tank: Linking Biology to Behavior and Society to Enhance Obesity Prevention; Geo-Spatial Research Workshop. Montreal, Canada; 2007.
10. 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.
11. 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.
12. O'Neill MS, Auchincloss AH, Dvornch 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
13. 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.
14. 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.

15. 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.
16. 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.