

Amelia M. Haviland

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CURRENT POSITIONS	Carnegie Mellon University , Pittsburgh, PA <i>Full Professor</i> <i>Director, AI & Analytics for Good Initiative,</i> <i>Block Center for Technology & Society</i> <i>Associate Professor with Tenure</i> <i>Associate Professor, H. John Heinz III College of Public Policy & Management</i>	September 2019 - Present April 2018 - Present 2014 - August 2019 July 2011 – August 2014
	RAND Corporation , Pittsburgh, PA <i>Senior Statistician, Adjunct</i> <i>Full Statistician</i> <i>Associate Statistician</i>	May 2011 – Present June 2007 – April 2011 September 2004 – June 2007
EDUCATION	Carnegie Mellon University , Pittsburgh, PA Ph.D., Joint Degree in Statistics and Public Policy, October 2003. Dissertation Title: “Understanding Gender and Racial Wage Gaps among the Highly Educated” Co-chairs: Stephen Fienberg, Prof. of Statistics, Lowell Taylor, Prof. of Economics M.S., Statistics, May 2000	
	Hampshire College , Amherst, MA B.A., Concentration in Mathematics and Education, May, 1991	
HONORS AND AWARDS	Named the Anna Loomis McCandless Professor, an endowed chair, 2011 Received Thomas Lord Distinguished Scholar award in 2009 from the RAND Institute for Civil Justice. Award given for excellence in research and institutional contributions. Health Affairs Top 10 Most Cited Articles for 2006: “Consumer-Directed Health Care: Early Evidence About Effects On Cost and Quality.” DOI: 10.1377/hlthaff.25.w516 Fellowship for Younger Scholars, a dissertation fellowship, MacArthur Research Network on Social Interactions and Economic Inequality, 2002–2003 Wray Jackson Smith Scholarship, Section on Government Statistics, American Statistical Association, August 2002 DeGroot Fellowship, Department of Statistics, CMU, 1998–1999	

PUBLICATIONS

Collins RL, Elliott MN, Burkhart Q, **Haviland AM**, Gaillot S, Orr N, Friedberg MW. (2019). "Medicare Beneficiaries with a Specialist as Their Personal Doctor Report Better Experiences with Care" *Medical Care*, 57(6): 453-459. DOI: 10.1097/MLR.0000000000001122. June 2019.

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David Weisburd, Malay K. Majmundar, Hassan Aden, Anthony Braga, Jim Bueermann, Philip J. Cook, Phillip Atiba Goff, Rachel A. Harmon, **Amelia Haviland**, Cynthia Lum, Charles Manski, Stephen Mastrofski, Tracey Meares, Daniel Nagin, Emily Owens, Steven Raphael, Jerry Ratcliffe, Tom Tyler. (2019). "Proactive Policing: a Summary of the Report of the National Academies of Sciences, Engineering, and Medicine" *Asian Journal of Criminology AJOC-D-19-00026*. May 2019.

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Klein, David & N. Elliott, Marc & **Haviland, Amelia** & Morrison, Peter & Orr, Nate & Gaillot, Sarah & Weech-Maldonado, Robert. (2018). "A Comparison of Methods for Classifying and Modeling Respondents Who Endorse Multiple Racial/Ethnic Categories: A Health Care Experience Application." *Medical Care*. 57. 1. 10.1097/MLR.0000000000001012.

T. Fenton, Anny & Burkhart, Q & Weech-Maldonado, Robert & **Haviland, Amelia** & Dembosky, Jacob & Shih, Regina & M. Wilson-Frederick, Shondelle & Gaillot, Sarah & N. Elliott, Marc. (2018)." Geographic context of black-white disparities in Medicare CAHPS patient experience measures." *Health Services Research*. 54 Suppl 1. 10.1111/1475-6773.13091.

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D. Farley, A. Haas, **A. Haviland**, S. Lovejoy, K.G. Morganti. (2012). "Measuring Success for Health Care Quality Improvement Interventions." *Medical Care*. 50(12):1086-1092.

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R. Apel, R. Brame, S. Bushway, **A.M. Haviland**, D.S. Nagin, R. Paternoster (2007). "Unpacking the Relationship Between Adolescent Employment and Antisocial Behavior: A Matched Samples Comparison." *Criminology*. 45(1):67-97. DOI: 10.1111/j.1745-9125.2007.00072.x. March 2007.

A.M. Haviland, D.S. Nagin (2007). "Using Group-Based Trajectory Modeling in Conjunction With Propensity Scores to Improve Balance." *Journal of Experimental Criminology*. 3:65-82. DOI: 10.1007/s11292-007-9023-3. February 2007.

M. Beeuwkes-Buntin, C. Damberg, **A.M. Haviland**, K. Kapur, N. Lurie, R. McDevitt, M.S. Marquis (2006). "Consumer-Directed Health Care: Early Evidence About Effects On Cost and Quality." *Health Affairs*. 25(6):516-530. DOI: 10.1377/hlthaff.25.w516. October 2006.

D. Black, **A.M. Haviland**, S.G. Sanders, L. Taylor (2006). "Why Do Minority Men Earn Less? A Study of Wage Differentials among the Highly Educated." *Review of Economics and Statistics*. 88(2):300-313. DOI:10.1162/rest.88.2.300. June 2006.

A.M. Haviland, D.S. Nagin (2005). "Causal Inferences with Group Based Trajectory Models: A Gang Membership and Delinquent Violence Application." *Psychometrika*. 70(3):557-578.

B.O. Daponte, **A.M. Haviland**, J.B. Kadane (2004). "To What Degree Does Food Assistance Help Poor Households Acquire Enough Food?" *Journal of Poverty*. 8(2):63-87. DOI: 10.1300/J134v08n02_04. January 2004.

S. Fienberg, **A.M. Haviland** (2003). "Can We Measure the Causal Effect of Discrimination?" A Comment on 'Statistics and Causal Inference: A Review' by Judea Pearl." *Test*. 12(2):319-327.

A.K. Jacobs, J.M. Johnston, **A.M. Haviland**, M. Mori Brooks, S.F. Kelsey, Sheryl F (2002). "Improved Outcomes For Women Undergoing Contemporary Percutaneous Coronary Intervention: A Report From the National Heart, Lung, and Blood Institute Dynamic Registry." *Journal of the American College of Cardiology*. 39(10):1608-1614.

R. Holubkov, W.K. Laskey, **A.M. Haviland**, J.C. Slater, M.G. Bourassa (2002). "Angina One Year after Percutaneous Coronary Intervention: A Report from the NHLBI Dynamic Registry." *American Heart Journal*. Volume 144(5):826-833.

RAND
PUBLICATIONS

M.D. Greenberg, **A.M. Haviland**, S.J. Ashwood, R. Main. *Is Better Patient Safety Associated with Less Malpractice Activity?: Evidence from California*, Santa Monica, Calif.: RAND Corporation, TR-824-ICJ, 2010.

D.O. Farley, M.S. Ridgely, P. Mendel, S.S. Teleki, C. Damberg, R. Shaw, M. Greenberg, **A.M. Haviland**, P.S. Hussey, J.W. Dembosky, H. Yu, J. Brown, C. Pham, S.J. Ashwood. *Assessing Patient Safety Practices and Outcomes in the U.S. Health Care System*, Santa Monica, Calif.: RAND Corporation, TR-725-AHRQ, 2009.

D.O. Farley, M.D. Greenberg, **A.M. Haviland**. *Prioritizing Patient Safety Outcomes Measures: Results of an Expert Consensus Process*, Santa Monica, Calif.: RAND Corporation, WR-601-AHRQ, 2008.

M.D. Greenberg, **A.M. Haviland**. *Issues and Performance in the Pennsylvania Workers' Compensation System*, Santa Monica, Calif.: RAND Corporation, OP-216-PA, 2008.

M.D. Greenberg, **A.M. Haviland**. *Workers' Compensation in Pennsylvania: How Is the System Performing? How Should It Be Reformed?*, Santa Monica, Calif.: RAND Corporation, RB-9333-PA, 2008.

D.O. Farley, C. Damberg, M.S. Ridgely, M.E. Sorbero, M.D. Greenberg, **A.M. Haviland**, S.S. Teleki, P. Mendel, L.A. Bradley, J.W. Dembosky, A.M. Fremont, T.K. Nuckols, R. Shaw, S.G. Straus, S. Taylor, H. Yu, S. Tharp-Taylor. *Assessment of the AHRQ Patient Safety Initiative Final Report: Evaluation Report IV*, Santa Monica, Calif.: RAND Corporation, TR-563-AHRQ, 2008.

Haviland, Amelia & Savych, Bogdan. (2007). "A Description and Analysis of Evolving Data Resources on Small Business." SSRN Electronic Journal. 10.2139/ssrn.1019119.

M. Beeuwkes Buntin, C. Damberg, **A.M. Haviland**, K. Kapur, N. Lurie, R. McDevitt, M.S. Marquis. *Consumer-Directed Health Care: Early Evidence About Effects On Cost And Quality*, Santa Monica, Calif.: RAND Corporation, RB-9234, 2007.

D. Dausey, A. Chandra, A.G. Schaefer, B. Bahney, **A.M. Haviland**, S. Zakowski, N. Lurie. *Improving and Enhancing Telephone-based Disease Surveillance Systems in Local Health Departments*, Santa Monica, Calif.: RAND Corporation, WR-469-DHHS, 2007.

A.M. Haviland, B. Savych. *A Description and Analysis of Evolving Data Resources on Small Business*, Santa Monica, Calif.: RAND Corporation, WR-293-1-ICJ, 2007.

D.O. Farley, C. Damberg, S.M. Ridgely, M.E. Sorbero, M.D. Greenberg, **A.M. Haviland**, R. Meili, S.S. Teleki, L.A. Bradley, J.W. Dembosky, A.M. Fremont, T.K. Nuckols, R. Shaw, S.L. Taylor, H. Yu. *Assessment of the AHRQ Patient Safety Initiative: Focus on Implementation and Dissemination Evaluation Report III*, Santa Monica, Calif.: RAND Corporation, TR-508-AHRQ, 2007.

D.O. Farley, M.D. Greenberg, **A.M. Haviland**, S. Lovejoy. *Prioritizing Patient Safety Outcomes Measures: Results of an Expert Consensus Process*, Santa Monica, Calif.: RAND Corporation, PM-2329-AHRQ, 2007.

J.M. Mendeloff, C.D. Nelson, K. Ko, **A.M. Haviland**. *Small Businesses and Workplace Fatality Risk: An Exploratory Analysis*, Santa Monica, Calif.: RAND Corporation, TR-371-ICJ, 2006.

J.M. Mendeloff, C. Nelson, K. Ko, **A.M. Haviland**. *Are Small Businesses Riskier Than Larger Ones?*, Santa Monica, Calif.: RAND Corporation, RB-9181-ICJ, 2006.

Fienberg, SE & **Haviland, Amelia** & Heckerman, David & Shachter, Ross & Kadane, JB & Moral, Serafín & Pearl, J. (2003). Statistics and causal inference: A review - Discussion. *Test*. 12. 319-345.

WORKING PAPERS Patient Responses to Incentives in Consumer-directed Health Plans: Evidence from Pharmaceuticals. Peter J. Huckfeldt, **Amelia Haviland**, Ateev Mehrotra, Zachary Wagner, Neeraj Sood, NBER Working Paper No. 20927 Issued in February 2015

PROFESSIONAL ACTIVITIES Co-Chair of Organizing Committee for the 2018 Atlantic Causal Inference Conference (ACIC 2018)

Member on the National Science Foundation's Methodology, Measurement, and Statistics Panel (Fall 2017 – Spring 2019)

Member of the Heinz College PhD Committee (2016 – present)

Served 2016-2017 on the National Research Council Committee on Proactive Policing, Committee on Law and Justice, Division of Behavioral and Social Sciences and Educations. Result of the Committee's work was the following report: National Academies of Sciences, Engineering, and Medicine. 2017. *Proactive Policing: Effects on Crime and Communities*. Washington, DC: The National Academies Press. DOI: 10.17226/24928.

International Conference on Health Policy and Statistics (ICHPS) Scientific Organizing Committee, 2015-2016.

Member of the Executive Committee of the Health Policy Statistics Section of the American Statistical Association, Treasurer, 2011-2012

Served 2010-2011 on the National Research Council Committee on Deterrence and the Death Penalty, Committee on Law and Justice, Division of Behavioral and Social Sciences and Education. Result of Committee's work was the following

report: *Deterrence and the Death Penalty*. National Research Council. 2012.
Deterrence and the Death Penalty. Daniel S. Nagin and John V. Pepper (eds.).
National Academy Press: Washington, DC.

Referee for the *Journal of the American Statistical Association- Applications and Case Studies, Statistics in Medicine, Health Affairs, Health Services Research, Medical Care, Journal of General Internal Medicine, Journal of Health Economics, Journal of Human Resources, Criminology, and Journal of Quantitative Criminology*.

FUNDED GRANTS
AND CONTRACTS

Current

Project Title: National Implementation of Medicare Advantage and Prescription Drug Plan CAHPS Survey

Client: Centers for Medicare and Medicaid Services (Subcontract from RAND)

Funding Dates: 9/30/17-9/29/20

Role: Investigator (PI: M. Elliott)

Past

Project Title: Consumer-Directed Health Plans and Use of Preventive Services

Client: NIH RO1 (Subcontract from USC)

Funding Dates: 9/15/12-8/31/15

Role: Investigator (PI: N. Sood)

Project Title: A Study of Modern Employer Wellness Programs and Preventive Services

Client: NIH RO1 (Subcontract from NBER)

Funding Dates: 9/20/12-6/30/15

Role: Investigator (PI: A. Cuellar)

Project Title: Community Health and Anti-Social Behavior at Drug Hot Spots

Client: NIH/NIDA RO1 (Consultant to GMU)

Funding Dates: 9/1/12-8/31/15

Role: Investigator (PI: D. Weisburd)

Project Title: National Implementation of Medicare Advantage and Prescription Drug Plan CAHPS Survey

Client: Centers for Medicare and Medicaid Services (Subcontract from RAND)

Funding Dates: 9/30/11-9/29/14

Role: Investigator (PI: M. Elliott)

Project Title: Health Care Use and Quality in High-Deductible Health Plans

Client: California HealthCare Foundation

Funding Dates: 3/8/06-2/28/11

Total Funding: \$2,069,475

Role: Principal Investigator (initially Investigator, co-PI: S. Marquis)

Project Title: Health Care Use and Quality in High-Deductible Health Plans
Client: Robert Wood Johnson Foundation
Funding Dates: 8/1/06-2/28/11
Total Funding: \$2,000,000
Role: Principal Investigator (initially Investigator, co-PI: S. Marquis)

Project Title: Analysis of the Medicare CAHPS Survey
Client: Centers for Medicare and Medicaid Services
Funding Dates: 9/29/06-9/28/11
Total Funding: \$13,830,000
Role: Investigator (PI: M. Elliott)

Project Title: Evaluation of the Effectiveness of California's Injury Illness and Prevention Program
Client: California Department of Industrial Relations
Funding Dates: 5/6/09-7/6/11
Total Funding: \$237,767
Role: Investigator (Statistician on proposal, developed methods, led one aim)

Project Title: Modeling the Effect of Cigarette Advertising on Adolescent Smoking
Client: NIH/NIDA
Funding Dates: 4/1/08-3/31/11
Total Funding: \$1,233,643
Role: Investigator (Statistician on proposal, developed methods)

Project Title: Evaluation of Safe-Start- Promising Approaches for Children Exposed to Violence
Client: US Department of Justice
Funding Dates: 9/1/05-8/31/09
Total Funding: \$5,252,509
Role: Investigator (Statistician on proposal, developed methods)

Project Title: Patient Safety Evaluation Center
Client: AHRQ
Funding Dates: 9/16/02-9/15/08
Total Funding: \$7,380,921
Role: Investigator (Co-led Outcomes Evaluation Team with M. Greenberg)

Project Title: Treatment Effects on Desistance from Youth Violence
Client: Center for Disease Control and Prevention
Funding Dates: 9/12/05-8/31/08
Total Funding: \$707,265
Role: Investigator

Carnegie Mellon University, Pittsburgh, PA

Post-Doctoral Fellow

Includes research on nonparametric balancing methods, causal analysis with trajectories, **June, 2003 – June, 2004**

ACADEMIC
EXPERIENCE

bootstrap methodology, and wage gaps and teaching 36–303 Surveys, Sampling, and Society, an upper level undergraduate statistics course spring 2004.

Doctoral Student

Completed coursework and all qualifying exams in both the statistics and public policy Ph.D. programs in addition to thesis research requirements.

August, 1998 – October, 2003

Research Assistant

Studied gender and racial/ethnic wage gaps among highly educated workers living in the U.S. using the National Survey of College Graduates (1993) and the 1990 Long Form of the Census.

May, 2001 – May, 2002

NSF VIGRE Teaching Fellow

The Vertical Integration of Research and Education in Statistics and Mathematical Sciences (VIGRE) grant, funded by the National Science Foundation, allows for the mentoring of future academics in course development. Duties included discussion of course structure and teaching methodology, shared administrative responsibilities, teaching a weekly review session and fielding all student inquiries.

January – December, 2000

Teaching Assistant

Duties included office hours, leading weekly computer lab exercises, assisting in course administration, fielding student inquires, giving lectures, and grading.

PREVIOUS WORK
EXPERIENCE

Epidemiology Data Center, Graduate School of Public Health, University of Pittsburgh, PA

Statistician

Summers 1999, 2000

Analyzed epidemiological data for the National Heart, Lung and Blood Institute Dynamic Registry, presented work at weekly Registry Meetings, and jointly authored papers.

Heathwood Hall Episcopal School, Columbia, SC

High School Mathematics Teacher

August 1994 – June 1998

Developed curriculum for and taught integrated algebra, geometry, trigonometry, probability, and statistics courses. Served as faculty advisor to a group of 15 students and the math team. Chaired thesis committees for senior advisees and supervised the school's peer counseling program.

Hampshire College, Amherst, MA

Director, Quantitative Skills Program

August, 1992 – June, 1994

Restructured the college's mathematics resource center, expanding and improving its computer lab, budget, staff, and resources. Coordinated a drop-in tutoring program for students in all disciplines. Hired, trained, and supervised student tutors. Created and taught courses and workshops on topics such as math for the sciences, calculus, statistics, and GRE preparation.

Calculus in Context Project, Five Colleges, Inc.,

Amherst, MA

Project Evaluator

August, 1988 – July, 1990

Investigated the effectiveness of an experimental calculus program through interviews with over 250 college students and observations of classes and problem sessions. Developed a set of assessment criteria. Provided written reports and presented results to members of the math departments at Smith College, Mount Holyoke College, the University of Massachusetts, and Hampshire College and to the National Science Foundation.

PROFESSIONAL
ORGANIZATIONS

The American Statistical Association

January, 1989 – Present

COMPUTER
SKILLS

Statistical Packages: R, SAS, and Stata.

Operating Systems: Unix/Linux, Windows.

Document Preparation: LaTeX and GNU Emacs, Microsoft Word.