

JUDY GEYER

Curriculum Vitae

October 27, 2011

CAMPUS ADDRESS

Tepper School of Business
Carnegie Mellon University
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CURRENT ADDRESS

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EDUCATION

PhD in Economics, Carnegie Mellon University, December 2011
MA in Economics, Carnegie Mellon University, 2007
MSE in Systems Science and Engineering, University of Pennsylvania, 2002
BSE in Computer Science and Engineering, University of Pennsylvania, 2002

TEACHING

Adjunct Instructor, Regression Analysis (masters/phd), Tufts, Spring 2011
Co-Instructor, Regression Analysis (undergraduate), Carnegie Mellon, Spring 2007 (Maria Ferreyra)
TA, Public Policy in the Real World (masters), Carnegie Mellon, Fall 2007, 2008 (Mark Roosevelt)
TA, Public Finance (masters), Carnegie Mellon, Fall 2008 (Robert Strauss)
TA, Public Economics (undergraduate), Carnegie Mellon, Fall 2006, 2007 (Holger Sieg)
TA, Econometrics I (phd), Carnegie Mellon, Fall 2006 (George-Levi Gayle)

DISSERTATION

Essays in Low-Income Housing Policies, Mobility, and Sorting.
Dissertation successfully defended, no additional edits required. Oct 21, 2011
Committee Members: Dennis Epple (primary advisor), Limor Golan, Holger Sieg (primary advisor), Mel Stephens

WORKING PAPERS

Housing demand and neighborhood choice with housing vouchers. (Job Market Paper)
Abstract. One goal of the U.S. housing voucher program, as an alternative to public housing subsidies, is to help participants gain access to decent neighborhoods. I find that in a typical implementation of the program, participants in the housing voucher program live in better neighborhoods than public housing residents, but in lower-quality neighborhoods compared to unsubsidized households eligible for the program. I propose and estimate a new model of residential choice and housing demand that respects different budget constraints induced by various housing policies. The model is used to study several possible rental assistance schemes. With respect to crime rates and public school quality, a rental rebate program and a requirement to live in low-poverty neighborhoods would be most effective at improving neighborhood selection. The former would significantly lower program costs, while the later would have to be offset with high levels of compensation including relocation assistance.

The welfare costs of failing to maintain public housing. (Revise and Resubmit, Quantitative Economics, with D. Epple and H. Sieg)

Abstract. The goal of this paper is to estimate the welfare costs associated with failing to maintain a sufficient supply of public housing communities. We develop a new model that captures excess demand for public housing in equilibrium. We estimate the parameters of the model based on a unique panel data set of low-income households in Pittsburgh. We find that for each family that leaves public housing there are on average 3.85 families that would like to move into the vacated unit. Demolitions of existing units increase the degree of rationing and result in large welfare losses. An unintended consequence of demolitions is that they increase racial segregation in low income

housing communities.

Public Housing Policies and the Mobility of Low Income Households: Evidence from Pittsburgh (with D. Epple and H. Sieg)

Abstract. The goal of this paper is to study the impact of public housing policies on the mobility of low income households in a large urban area. We focus on communities owned and managed by the Housing Authority of the City of Pittsburgh. The empirical analysis is based on a unique restricted use panel data set that allows us to follow low income households over a five year period. We find that heterogeneity in public housing communities is important in explaining households' decisions to enter and exit the housing assistance program. The paper also documents the importance of with-in program transfers. These transfers reflect a combination of desirability, events planned by the housing authority, and the turn-over rates of different communities. Understanding the link between community-specific amenities and mobility provides new insights for the design of better housing policies.

The effect of public housing on school performance. (with B. Davis)

Abstract. Using a matching model, we compare the standardized test scores, course marks, promotion, attendance records, and behavioral records of public school children in public housing to children not living in public housing.

CONFERENCES AND RESEARCH PRESENTATIONS

NBER Economics of Real Estate and Local Public Finance Session, July 2011, "Estimating a Model of Excess Demand for Public Housing" (with Dennis Epple and Holger Sieg)

Greater Boston Area Urban and Real Estate Economics Seminar, Mar 2011, "Housing Demand and Neighborhood Choice with Housing Vouchers: An Empirical Analysis"

Carnegie Mellon University, Dec 2009, "Effect of Public Housing on Standardized Test Scores" (with B. Davis)

Carnegie Mellon University, Nov 2009, "An Equilibrium Sorting Model with Housing Vouchers"

Carnegie Mellon University, Apr 2009. "Essays in Low-Income Housing Policies, Mobility, and Sorting"

North American Meeting of the RSAI, 2007. "Meeting the Challenges of Public Housing Policies in a Large Metropolitan Area" (with Dennis Epple and Holger Sieg)

NBER Summer Institute and "What's New in Econometrics" Course, 2007. Attendee.

Institute on Computational Economics, 2006. Attendee (applied and accepted).

EMPLOYMENT

Visiting Scholar Federal Reserve Bank of Boston 2011 -
Boston, MA

Conduct independent research and consult informally with the Bank's economists.

Adjunct Instructor Tufts University, Friedman School 2010 -
Boston, MA

Taught introductory econometrics to large class of graduate nutrition policy students.

Research Assistant Traffic Safety Center 2003-2005
University of California, Berkeley

Co-authored 6 accepted research conference papers. Authored 4 grant proposals that awarded the Center 84% of its previous year's operating budget.

Software Product Consultant Provenir 2002-2003
Parsippany, NJ

Communicated with customers and engineered onsite configuration of decision-support software for credit risk analysis.

Internship

Advanced Technologies Laboratory 2001
Lockheed Martin; Camden, NJ

Proposed a knowledge representation for onboard damage analysis and compensation by unmanned aerial vehicles.

HONORS AND AWARDS

William Larimer Scholarship, 2005-2006, 2006-2007, 2010-2011
NBER stipend support through Dennis Epple and Holger Sieg, 2007-2008, 2008-2009
Magna Cum Laude, University of Pennsylvania, 2002 (for BSE and MSE)
Wolf-Hallac Award, University of Pennsylvania, 2001
Tau Beta Pi, 2001-Present
Eta Kappa Nu, 2002-Present
University Scholar, University of Pennsylvania, 1997-2002

PROFESSIONAL ACTIVITIES AND LEADERSHIP

Journal of Public Economics, Reviewer
European Economic Review, Reviewer
Journal of Housing Economics, Reviewer
Engineering Deans' Advisory Board, UPenn; President 2000-2001, Secretary 1999-2000, Elected Member, 1998-1999
Student Committee on Undergraduate Education, UPenn, Elected Member 1997-1998

NON-ECONOMICS PAPERS AND RESEARCH MEMORANDA

Geyer, J., Raford, N., Ragland, D., Pham, T. The continuing debate about safety in numbers: Data from Oakland, CA. *Proceedings of the 85th Annual Transportation Research Board Meeting*, January 2006.

MacLeod, M., Geyer, J., Satariano, W., Ragland D. Association between health problems and driver status among older adults. *Proceedings of the 84th Annual Transportation Research Board Meeting*, January 2005.

Johnson, E., Geyer, J., Rai, N., Ragland, D. Childhood pedestrian injury in low-income families: understanding the disparate risk. *Proceedings of the 84th Annual Transportation Research Board Meeting*, January 2005.

Geyer, J., Ragland, D. Vehicle Occupancy and Crash Risk. *Proceedings of the 84th Annual Transportation Research Board Meeting*, January 2005.

Brown, T., Geyer, J., Mitchell, B., Taghavy, A., Ragland, D. Pre-hospital care of road traffic injuries in Chiang Mai, Thailand *Proceedings of the 84th Annual Transportation Research Board Meeting*, January 2005.

Bechtel, A., Geyer, J., Ragland, D. A review of ITS-based pedestrian injury countermeasures, *Proceedings of the 83rd Annual Transportation Research Board Meeting*, January 2004.

Geyer, J. Analysis of optimization algorithms for the purposes of active learning on robots. Prepared as the completion of independent research towards a Masters Degree at the University of Pennsylvania, May 2002.

Evans, J. Failure to use information to reach integrative outcomes in negotiation. *Perspectives in Psychology: The Undergraduate Psychology Journal of the University of Pennsylvania*, Volume 4, 2001.

Evans, J. Observational learning in rats: observation of a behavior increases resistance to extinction of that behavior. For Robert Rescorla's seminar, Professor of Psychology at the University of Pennsylvania, December 1999.

Evans, J. Spatial selective attention: a new approach to the study of visual attention. For Edward Pugh's seminar, Professor of Ophthalmology at the University of Pennsylvania, December 1998.

COMPUTER SKILLS

Wrote over 5000 lines of multithreaded C++ code for my dissertation studies.
Proficient programming skills in C/C++, Java, SAS, Mathematica, Matlab.
Utilized Stata, R for class.

REFERENCES

Holger Sieg, University of Pennsylvania, holgers@sas.upenn.edu
Dennis Epple, Carnegie Mellon University, epple@andrew.cmu.edu
Mel Stephens, University of Michigan, mstep@umich.edu
Limor Golan, Carnegie Mellon University, limor@andrew.cmu.edu
Maria Ferreyra (teaching recommendations), Carnegie Mellon University, mferrey@andrew.cmu.edu