

STUART H. SWEENEY

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Areas of Specialization

Regional Labor Markets
Regional and Local Economic Development
Occupational Employment Forecasting
Demographic Forecasting
Statistical Analysis of Incomplete/Inaccurate Data
Spatial Statistics / Statistical Consulting
Spatial Analysis and Quantitative Geography in Undergraduate Education

Education

- 1999 Ph.D. City and Regional Planning, University of North Carolina, Chapel Hill. Doctoral Dissertation: *Planning and Policy Analysis with Synthetic Data: An Application to State Occupational Employment Projections*. Advisor: Harvey Goldstein.
- 1990 B.A. Urban Studies and Planning (minor Economics), University of California, San Diego.

Academic Appointments

- 2005- Associate Professor, Department of Geography, University of California, Santa Barbara
- 1998-2005 Assistant Professor, Department of Geography, University of California, Santa Barbara

Administrative Appointments

- 2004- Chair, Quantitative Methods for Social Sciences, Cross-Disciplinary Graduate Emphasis.
- 2004- Editorial Board, *Geographical Analysis*

Honors and Awards

- 1999 Springer-Verlag Award for the Best Paper at *Western Regional Science Association's Annual Meeting*.
- 2005 Nominated for the UCSB Plous Award for Excellence in Undergraduate Teaching.

Publications

Refereed Journal Articles

- 1997 J. Kasarda, S. Appold, S. Sweeney, E. Sieff. "Central city and suburban migration patterns: Is a turnaround on the horizon?" *Housing Policy Debate* 8(2): 307-358.
- 1998 S. Sweeney and E. Feser "Plant size and clustering of manufacturing activity," *Geographical Analysis*. 30(1): 45-64.

- 1998 A. Rogers and S. Sweeney "Measuring the spatial focus of migration patterns," *Professional Geographer* 50(2): 232-242.
- 1999 S. Sweeney "Model-based incomplete data analysis with an application to occupational mobility and migration accounts." *Mathematical Population Studies* 7(3): 279-306.
- 2000 E. Feser and S. Sweeney "A test for coincident economic and spatial clustering among business enterprises" *Journal of Geographical Systems* 2: 349-373
- 2002 S. Sweeney and K. Konty "Population forecasting with non-stationary multiregional growth matrices." *Geographical Analysis* 34(4): 289-312.
- 2003 E. Feser and S. Sweeney "Out-migration, depopulation, and the geography of U.S. economic distress." *International Region Science Review* 26(1): 38-67.
- 2003 K. Holmes, D. Roberts, S. Sweeney, I. Numata, E. Matricardi, T. Biggs, G. Batista, and O. Chadwick. "Soil databases and the problem of establishing regional biogeochemical trends." *Global Change Biology* 10: 1-19.
- 2004 S. Sweeney. "Regional occupational employment projections: Modeling supply constraints in the direct-requirements approach." *Journal of Regional Science* 44(2): 263-288.
- 2005 S. Sweeney and K. Konty "Robust point pattern inference from spatially censored data." *Environment and Planning, A* 37(1): 141-159.
- 2005 E. Feser, S. Sweeney, and H. Renski "A descriptive analysis of discrete U.S. industrial complexes." *Journal of Regional Science* 45(2): 395-419.
- 2005 S. Sweeney and Harvey Goldstein. "Accounting for migration in regional occupational employment projections." *Annals of Regional Science* (In Press, Accepted 6/30/04)
- 2005 S. Sweeney and E. Middleton "Multiregional cohort enrollment projections: Matching methods to enrollment policies." *Population, Place, and Space* (In Press, Accepted 2/18/2005)

Book Chapters

- 2002 Feser, E., and S. Sweeney. "Spatially binding linkages in manufacturing product chains." *Global Competition and Local Networks*. R. McNaughton and M. Green, Ashgate, pp. 111-130.
- 2002 Feser, E., and S. Sweeney. "Theory, methods, and a cross-section comparison of business clustering." *Industrial Location Economics*. P. McCann. Edgar Elgar. pp. 222-262.
- 2003 Sweeney, S. and E. Feser. "Business location and spatial externalities: Tying concepts to measures." *Spatially integrated social science: examples in best practice*. M. Goodchild and D. Janelle. Oxford University Press. pp. 239-262.

Government/Foundation Reports

- 1996 H. Goldstein and S. Sweeney "The Effect of Migration on Occupational Employment for States and Substate Areas" ALMIS, U.S. Dept. of Labor Report
- 1996 E. Bergman, E. Feser, and S. Sweeney "Targeting North Carolina Manufacturing:

Understanding the States's Economy through Industrial Cluster Analysis," Institute for Economic Development Report, UNC-Chapel Hill.

- 1998 H. Goldstein and S. Sweeney "Integrating the Effects of Migration into Occupational Employment Projections," ALMIS, U.S. Dept. of Labor Report
- 1998 E. Feser and S. Sweeney "Out-migration, Population Decline, and Regional Economic Distress" Economic Development Administration, U.S. Dept. of Commerce.
- 2001 S. Sweeney and H. Goldstein "Measuring and integrating the effects of migration into state occupational employment projections." ALMIS, U.S. Dept. of Labor Report
- 2002 S. Sweeney "The Next Generation of Community Statistical Systems: Data Source Availability and Limitations" Shimberg Center for Affordable Housing/Ford Foundation.
- 2003 S. Sweeney "Population and Household Projections Methodology for Cities and Subregions." Southern California Association of Governments

Conference Proceedings

- 2003 E. Leckey, B. Tiffney, and S. Sweeney "Cretaceous distribution patterns of herbivorous dinosaurs and vascular plants." *PaleoBios* 23: 5.

Manuscripts, Conditional Accepts

- 2004 E. Feser and S. Sweeney "On the state of the geography in the U.S. BLS covered wages and employment (ES-202) series." *International Regional Science Review* (Conditionally accepted to anchor a special issue on Regional Science Data. I will be the guest editor for the issue and will write the lead article).

Manuscripts Under Review

- 2004 N. Nagle and S. Sweeney. "Point-based regression analysis of industrial location." *Geographical Analysis*
- 2005 Soleri, D., D.A. Cleveland, F. Aragón Cuevas, H. Ríos Labrada, M.R. Fuentes Lopez, and S.H. Sweeney (2005) Farmers' assessment and evaluation of the potential risk of transgenes in Mexico, Cuba and Guatemala. *Crop Science*

Working Papers

- 2004 S. Sweeney and E. Middleton "Modeling assignment-attendance mismatches under open enrollment."
- 2004 S. Moral and S. Sweeney "Births of new industries around industrial complexes in Spain"
- 2004 S. Sweeney and K. Konty "Modeling spatial-temporal structures in migration systems."
- 2004 S. Sweeney "Small area population projections using stochastic simulation."
- 2004 E. Feser and S. Sweeney. "On the geographic research potential of the ES-202"

2004 S. Sweeney "Space-time analysis of industry concentration."

Conference Participation and Presentations

- 1995 "Theoretical and Econometric Assumptions in Regional Employment Growth Models and Their Effect on Model Interpretation and Specification." *Southern Regional Science Association Meetings*
- 1996 "Geographic Clustering Among Linked Producers: An Application of Second-Order Analysis for Inhomogeneous Populations." *Association of American Geographers Annual Meeting*
- 1996 "Testing for Geographic Clustering of Establishments by Size and Type." *North American Meetings of the Regional Science Association International*
- 1996 "The Demographic and Geographic Structure of Occupational Migration." *North American Meetings of the Regional Science Association International*
- 1997 "Are Americans Migrating Less But with Greater Spatial Focus?" *Western Regional Science Association Meetings*
- 1997 "Interstate and Sub-state Occupational Migration: Econometric Models with Occupation-Specific Explanatory Variables." *Western Regional Science Association Meetings*
- 1998 "Estimation of Occupational Mobility and Migration from Incomplete Data." *Association of American Geographers Annual Meeting*
- 1998 "The Effect of Regional Out-migration on Job Openings by Occupation." *European Regional Science Association Meetings.*
- 1999 "Out-migration, Depopulation, and Regional Economic Distress: Spatial and Temporal Sensitivity Analysis" *Western Regional Science Association Meetings (awarded Springer-Verlag Award)*
- 2000 "Regional Occupational Employment Projections: Modeling Supply Constraints in the Direct-Requirements Approach." *Western Regional Science Association Meetings*
- 2000 "Theory, methods, and a cross-section comparison of business clustering" *North American Meetings of the Regional Science Association International*
- 2001 "Modeling non-stationarity transition probabilities in multiregional population projections." *Annual Meetings of the Association of American Geographers.*
- 2002 "On spatialization and migration models," *Association of American Geographers Annual Meeting.*
- 2002 "CSISS Workshops: Diffusing spatial concepts and methods," *Association of American Geographers Annual Meeting.*
- 2002 "Correcting for sampling bias using stratified random thinning," *North American Meetings of the Regional Science Association International*

- 2002 “Space-time analysis of industry concentration,” *North American Meetings of the Regional Science Association International*
- 2003 “Stratified thinning of spatial point patterns: a cautionary tale of inference on spatial censored data,” *Western Regional Science Association Meetings*.
- 2003 “Small area population projections using stochastic simulation,” *Association of American Geographers Annual Meeting*.
- 2003 “Small area population projections using stochastic simulation,” *Annual Meeting, Population Association of America*.
- 2003 “Modeling spatial-temporal structures in migration systems,” *North American Meetings of the Regional Science Association International*
- 2004 “Sub-district enrollment projections using student level records,” *Annual Meeting, Population Association of America*
- 2004 “Space-time analysis of industry concentration,” *Western Regional Science Association*.

Invited Lectures

- 1998 “Model-based Estimation of Occupational Migration and Mobility Accounts from Incomplete Data.” UCSB, Department of Geography, Colloquium.
- 1998 “Out-migration and Regional Economic Distress,” **Invited Speaker**, *U.S. Economic Development Administration, Chicago Regional Conference*.
- 1999 “Planning Decline: Lessons from Nation’s Heartland.” UCLA, Department of Geography, Colloquium.
- 1999 “Out-migration and Regional Economic Distress,” **Invited Speaker**, *U.S. Economic Development Administration, Denver Regional Conference*.
- 2000 “Methodologies for measuring industry clusters,” **Invited Speaker**, *World Bank, Washington, DC office*.
- 2001 “Introduction to CSISS/ADEPT,” **Invited Speaker**, *U.S. Department of Housing and Urban Development, Division of Planning, Development, and Research*
- 2001 “Using Geocoded ES-202 Data for Policy-related Research,” **Invited Speaker**, *Plenary Session on Innovations in Labor Market Research, 2001 U.S. Bureau of Labor Statistics National LMI Conference, Reaching New Heights in Labor Market Information, Asheville, NC*.
- 2002 “Population forecasting with non-stationary multiregional growth matrices,” **Invited Speaker**, *Quantitative Methods for Social Sciences, UCSB*.
- 2002 “On modeling change in migration systems,” **Invited Speaker**, *Migration Speaker Series, U.S. Census Bureau*.
- 2002 “Sub-county trend projection methodology: population and households,” **Invited Speaker**,

Southern California Association of Governments

- 2002 “Enabling spatial demography: A review of tools and resources,” **Invited Speaker**, *Southern Demographic Association meeting*.
- 2002 “Enabling spatial demography: concepts, tools, and resources,” **Invited Speaker**, Demography Seminar, University of Wisconsin, Madison.
- 2002 “Small area population projections using stochastic simulation,” **Invited Speaker**, Applied Demography Seminar, University of Wisconsin, Madison.
- 2003 “Enabling spatial demography: concepts, tools, and resources,” **Invited Speaker**, CSISS Workshop, Population Science and GIS, Pennsylvania State University.
- 2003 “Population distribution from remote sensing,” **Invited Session Chair**, Conference on Migration, Urbanization, and Health: The Role of Remote Sensing and Geographic Information Systems for Monitoring, Surveillance, and Program Evaluation, Princeton University.
- 2004 “Spatial analysis: An overview of methods for space-time analysis of stocks and transaction flows.” **Invited Speaker**, *Globalization in the World-System: Mapping Change over Time*, U.C. Riverside.
- 2004 “Modeling spatial-temporal structures in migration systems: Towards integrated analysis and visualization of transaction data.” **Invited Colloquium Speaker**, *Department of Geography, San Diego State University*.
- 2004 “Space and place in social science research methodology.” **Invited Lecture**, SPACE Workshop, UC Santa Barbara.
- 2004 “Spatial social science: Course planning and lecture examples.” **Invited Lecture**, SPACE Workshop, UC Santa Barbara.

Research Grants and Contracts

- 1998-99 (co-P.I.) UCSB Office of Research (Research Across Disciplines) “Identifying Maya Archaeological Sites in the El Pilar Region.” (\$50,000)
- 1999-00 (P.I.) Sub-contract to UNC-Chapel Hill (prime sponsor is North Carolina Employment Security Administration/U.S. Department of Labor) “Measuring and Integrating the Effects of Migration into State Occupational Employment Projections.” (\$49,877)
- 1999-00 (P.I.)UCSB, Faculty Mini-grant (\$1,000)
- 2000-03 (P.I.) National Science Foundation, Geography & Regional Science, “Spatial Clustering Among U.S. Business Enterprises” (\$69,869)
- 2000-01 (P.I./Consultant) “Feasibility and benefits of a UCSB/HUD spatial data partnership.” U.S. Department of Housing and Urban Development, Office of Policy Development and Research (\$2,400)

- 2001 (P.I.) UCSB, Drug-awareness faculty mini-grant (\$2,500)
- 2001 UCSB Junior Faculty Research Incentive Award (\$5,000)
- 2001-03 (P.I.) "Sub-county population and housing projections," Southern California Association of Governments (\$74,921)
- 2001-03 (P.I.) "Divining the Future of S.B. Schools: Enrollment Forecasts, Capital Planning, and Educational Equity." Pearl Chase Fund, UCSB Academic Senate (\$16,251)
- 2003-04 (P.I.) "Open enrollment and housing choice: Factors underlying assignment-enrollment mismatches in Santa Barbara elementary schools." Pearl Chase Fund, UCSB Academic Senate (\$24,998)
- 2003-04 (P.I.) "An integrated software environment for enhanced geography education." UCSB Instructional Resources, Instructional Improvement Grant (\$12,511)
- 2005-07 (P.I.) National Science Foundation, Geography & Regional Science, "Intraurban industrial location under accessibility and institutional constraints" (\$100,000)
- 2005 (P.I.) U.C. Office of the President, Pacific Rim Research Program, "Globalizing Surfboard Manufacturing: From Craft Industry to Off-shore Production." Mini-grant (\$2,972)

Professional Associations and Service

Editorial Board

Geographical Analysis

Guest Editor

International Regional Science Review

Journal Referee

Annals of the Association of American Geographers
 Environment and Planning A
 Environment and Planning B
 Geographical Analysis
 International Regional Science Review
 Journal of Regional Science
 Journal of Geographical Systems
 Journal of Geography
 Location Science
 Mathematical Population Studies
 Papers in Regional Science
 Professional Geography

Proposal Reviewer

National Science Foundation (Geography and Regional Science, Economics)

Proposal Panelist

National Science Foundation

Conference Chairing and Discussing Activities

Regional Science Meetings (Western, Pacific, North American), Annual Meetings of the Population Association of American, Annual Meetings of the Association of American Geographers, Conference on Migration, Urbanization, and Health (Princeton University Program on Migration and Urbanization)

Committees

2003-04 Steering Committee, Quantitative Methods for the Social Sciences, UCSB
2002-03 Member, Population Geography Search Committee, Department of Geography
2002-03 Diversity Committee, Department of Geography
2001-03 Advisory Committee, Community Statistical Systems, Shimberg Center/Ford Foundation
1999-03 Executive Committee, Center for Spatially Integrated Social Sciences
1999-03 UCSB Faculty Legislature
1999-03 Affiliated Faculty/Faculty Advisor, Quantitative Methods for Social Sciences, UCSB
1998-03 Department of Geography, Colloquium Committee
1998-01 Department of Geography, Entertainment Committee

Other Activities

1998 Participant, NCGIA Varenus Workshop, *Status and Trends in Spatial Analysis*
1999 Attendee, *Opening Celebration, California Census Research Data Center, UCLA*
1999 Participant, *National Science Foundation Regional Grants Conference, USC*
1999 Attendee, *American Statistical Association Regional Lecture Series, Spatial Statistics*
2000 Participant, CSISS National Workshop, *Bayesian Analysis in the Social Sciences, University of Washington*
2000 Participant, *CSISS Specialist Meeting on Inequality & Equity*
2001 Participant, *CSISS Specialist Meeting on Externalities*
2001 Participant, *CSISS Specialist Meeting on Location-Based Services*
2002 Invited Participant, ACS Workshop, *Developing Research Methodologies That Integrate Administrative Records with Summary Statistics from the American Community Survey*, Jacob France Institute, University of Baltimore.
2002 Participant, *California Demography Workshop*, University of Southern California
2002 Participant, *CSISS Specialist Meeting on Spatial Data Analysis Software Tools*
2002 Program Committee, North American Meetings of the Regional Science Association Int.
2003 Program Committee, Western Regional Science Association Meetings
2003 Participant, *CSISS Specialist Meeting on Spatial and Social Interactions in Economics*
2003 Lecturer, CSISS National Workshop, *Population Science and GIS*, Pennsylvania State University.
2004 Coordinator and Lecturer, SPACE Workshop, *Spatial Analysis for the Undergraduate Social Science Curriculum*, UC Santa Barbara.

Professional Associations

American Statistical Association
Association of American Geographers
Regional Science Association International
Western Regional Science Association
Population Association of America

Graduate advising

Primary Advising:

Ph.D. Students:	Nicholas Nagle (ABD),	Awarded <i>Benjamin Stevens Fellowship</i> , 2004-2005. Appointed Asst. Prof. of Geography, Univ. of Colorado - Boulder, July 2005.
	Kevin Konty (ABD),	Currently employed as a Statistician, New York City, Department of Public Health, Infectious Disease Monitoring Branch.
	Erin Middleton (1 st year)	Researching school choice.
M.A. Students	Erin Middleton (M.A. awarded 2005)	
	Nicholas Nagle (M.A. awarded 2002)	

Committee Member Advising:

UCSB Ph.D.:	Young-Sik Kim (SDSU joint program), Mark Janikas (SDSU joint program), Wils Corrigan, Meri Marsh, Charles Deitzel, Jeff Hemphill
UCSB M.A.:	Pete Alagona, Marco Morais, Ryan Sexton, Adrienne Domas, Meri Marsh, Erin Leckey (UCSB Geology),
Other Universities:	Henry Renski (UNC Chapel Hill)

Courses

Graduate:	<i>Methods of Regional Analysis</i> (224/ 224L) – Topics in the past have included computational spatial statistics, demographic forecasting, and regional development theory and analysis.
	<i>Migration Models</i> (243) – Demographic and economic models of human migration.
Undergraduate:	Introductory Human Geography (5); Geography of Surfing (20); Urban Economic Geography (108E); Population, Development, and Environment (143); Urban and Regional Modeling (185C)