

**BIO-BIBLIOGRAPHY**

University of California, Santa Barbara

Name: **Stuart H. Sweeney**  
 Academic Title: **Assistant Professor IV**  
 Department: **Department of Geography**

Last update filed on: **June 16, 2003**  
 This update refers to the period: **November 1, 2000 to June 1, 2003**

**PART I. RESEARCH****Cumulative List of Publications**

#	YEAR	TITLE and AUTHOR	PUBLISHER	CATEGORY
1	1996	“The effect of migration on state occupational employment,” Harvey Goldstein and Stuart Sweeney	ALMIS, U.S. Dept. of Labor	Report
2	1996	“Targeting North Carolina manufacturing: Understanding the states’ economy through industrial cluster analysis,” Edward Bergman, Edward Feser, and Stuart Sweeney.	Institute for Economic Development, UNC-Chapel Hill	Report
3	1997	“Central city and suburban migration patterns: Is a turnaround on the horizon?” John Kasarda, Stephen Appold, Stuart Sweeney, and Elaine Sieff	<i>Housing Policy Debate</i> 8(2): 307-358.	Article
4	1998	“Integrating the effects of migration into occupational employment projections,” Harvey Goldstein and Stuart Sweeney	ALMIS, U.S. Dept. of Labor	Report
5	1998	“Plant size and clustering of manufacturing activity,” Stuart Sweeney and Edward Feser	<i>Geographical Analysis</i> 30(1): 45-64.	Article
6	1998	“Measuring the spatial focus of migration patterns,” Andrei Rogers and Stuart Sweeney	<i>Professional Geographer</i> 50(2): 232-242.	Article
7	1998	“Out-migration, population decline, and regional economic distress” Edward Feser and Stuart Sweeney	Economic Development Administration, U.S. Dept. of Commerce	Report
8	1999	“Model-based incomplete data analysis with An application to occupational mobility and migration accounts.” Stuart Sweeney	<i>Mathematical Population Studies</i> 7(3): 279-306.	Article
9	1999	“Analysis of incomplete data in a log-linear /GLM framework: Theory, examples, and computer programs.” Stuart Sweeney	Research Institute of Systems, Organisation, and Management, University of Gronigen	Refereed Working Paper
10	2000	“Demo-economic specifications for state industry-employment projections.” Harvey Goldstein and Stuart Sweeney	ALMIS, U.S. Dept. of Labor	Report
11	2000	“A test for the coincident economic and spatial clustering of business enterprises” Edward Feser and Stuart Sweeney	<i>Journal of Geographical Systems</i> 2: 349-373.	Article

12	2001	“Migration and the state occupational employment projections process.” Stuart Sweeney and Harvey Goldstein	ALMIS, U.S. Dept. of Labor	Report
13	2001	“A succinct economic and demographic history of Santa Barbara” Stuart Sweeney, John Corbett, and Steve Hochart.	<i>Vignettes of the Santa Barbara Area</i>	Report
since last review				
14*	2002	“Spatially binding linkages in manufacturing product chains.” Edward Feser and Stuart Sweeney	<i>Networks and Proximity, Vol. 1: Theory, measurement, and policy</i> Ashgate. 111-130.	Chapter
15*	2002	“Theory, methods, and a cross-metropolitan comparison of business clustering.” Edward Feser and Stuart Sweeney	<i>Industrial Location Economics</i> Edward Elgar. 222-262.	Chapter
16**	2002	“Population forecasting with non-stationary multiregional growth matrices.” Stuart Sweeney and Kevin Konty.	<i>Geographical Analysis</i> 34(4): 289-312	Article
17	2002	“The Next Generation of Community Statistical Systems: Data Source Availability and Limitations”	Shimberg Foundation/ Ford Foundation	Panel Report
18**	2003	“Out-migration, depopulation, and the geography of U.S. economic distress.” Edward Feser and Stuart Sweeney.	<i>International Regional Science Review</i> 26(1): 38-67.	Article
19**	2003	“Business location and spatial externalities: Tying concepts to measures.” Stuart Sweeney and Edward Feser.	<i>Spatially integrated social science: Examples in best practice</i> Cambridge Univ. Press. 239-262.	Chapter
20	2003	“Population and household projections methodology for cities and subregions.” Stuart Sweeney	Southern California Association of Governments	Report
21	2003	“Cretaceous distribution patterns of herbivorous dinosaurs and vascular plants” E. Leckey, B. Tiffany, and S. Sweeney	<i>PaleoBios</i> 23: 5.	Conference Proceeding
<b>Work in Press</b>				
B-1**	2003	“A descriptive analysis of discrete U.S. industrial complexes.” Edward Feser, Stuart Sweeney, and Henry Renski.	<i>Journal of Regional Science</i>	Article
B-2	2003	“Soil databases and the problem of establishing regional biogeochemical trends.” Karen Holmes, Dar Roberts, Stuart Sweeney, Izaya Numata, Eraldo Matricardi, Trent Biggs, Getulio Batista, and Oliver Chadwick.	<i>Global Change Biology</i>	Article

\* Previously listed as Work In Press.

\*\* Previously listed as Work Submitted.

B-3	2003	“Stratified thinning of spatial point patterns: a cautionary tale of inference on spatially censored data.” Stuart Sweeney and Kevin Konty	<i>Environment and Planning A</i>	Article
B-4**	2003	“Regional occupational employment projections: Modeling supply constraints in the direct-requirements approach.” Stuart Sweeney	<i>Journal of Regional Science</i>	Article
B-5	2003	“Accounting for migration in regional occupational employment projections.” Stuart Sweeney and Harvey Goldstein.	<i>Annals of Regional Science</i>	Article

#### Work Submitted

C-1	2003	“Incorporating spatial analysis in applied industry cluster studies.” Edward Feser, Kyonjun Koo, Henry Renski, and Stuart Sweeney.	<i>Economic Development Quarterly</i>	Article
C-2	2003	“On the state of the geography in the U.S. BLS covered wages and employment (ES-202) series” Edward Feser and Stuart Sweeney	<i>International Regional Science Review</i>	Article

#### Work in Progress

D-1		“Demo-economic specifications for regional occupational employment projections.” Stuart Sweeney and Harvey Goldstein.		Article
D-2		“Understanding migration structure: a new modeling approach.” Stuart Sweeney and Kevin Konty		Article
D-3		“Small area population projections using stochastic simulation.” Stuart Sweeney		Article
D-4		“Space-time analysis of industry concentration” Stuart Sweeney and Nicholas Nagle		Article

## PART II. TEACHING

### Catalog Courses

<u>Qtr</u>	<u>Course</u>	<u>Class Type</u>	<u>Units</u>	<u>Hrs/Wk</u>	<u>Enrollment</u>	<u>Evals Available</u>
W99	Geog 172/172L Intro. to Geographical Data Analysis	Lec	5	3	43	Yes
S99	Geog 5 Human Geography	Lec	4	3	154	Yes
	Geog 243 Migration Models	Lec	4	3	1	Yes
	Geog 288 Statistics Seminar	Lec	4	3	2	Yes
F99	Geog 5 Human Geography	Lec	4	3	111	Yes
	Geog 5 Honors section	Sem/Dis			4	Yes
	Geog 108 Urban Geography	Lec	4	3	43	Yes
W00	Geog 172/172L Intro. to Geographical Data Analysis	Lec	5	3	36	Yes

<u>Qtr</u>	<u>Course</u>	<u>Class Type</u>	<u>Units</u>	<u>Hrs/Wk</u>	<u>Enrollment</u>	<u>Evals Available</u>
S00	Geog 224 Regional Analysis	Lec	4	3	3	Yes
	Geog 294, Advanced Location Theory (with R. Church).	Sem	4	3	5	Yes
F00	Geog 5 Human Geography	Lec	4	3	149	Yes
	Geog 5 Honors section	Sem/Dis			5	No
	Geog 185C Urban and Regional Analysis	Lec	4	3	5	Yes
W01	Geog 172/172L Intro. to Geographical Data Analysis	Lec	5	3	33	Yes
S01	Geog 201 Geography Seminar	Sem	4	3	55	Yes
F01	Geog 108 Urban Geography	Lec	4	3	32	Yes
	Geog 5 Human Geography	Lec	4	3	188	Yes
	Geog 5 Honors section	Sem/Dis	-	1	3	No
W02	Geog 143 Population, Development, and Environment	Lec	4	3	27	Yes
	Geog 201 Geography Seminar	Sem	4	3	58	Yes
S02	Geog 224 Topics in Computational Spatial Statistics	Sem	4	3	7	Yes
F03	-- Sabbatical --					
W03	Geog 5 Human Geography	Lec	4	3	130	Yes
	Geog 5 Honors Section	Sem/Dis	-	1	6	No
	Geog 143 Population, Development, and Environment	Lec	4	3	23	Yes
	Geog 243 Migration Modeling	Sem	4	3	5	Yes
S03	Geog 185C Urban and Regional Analysis	Lec	4	3	7	Yes
	Geog 201 Geography Seminar	Sem	4	3	44	Yes

#### Undergraduate Projects Directed:

<u>Student</u>	<u>Project</u>	<u>Chair/Member</u>	<u>Year Degree Completed</u>
Mark Whiting	Geography Honors Thesis	Chair	1999
Wendy Carter	Mapping industry clusters	Chair	2000
Heidi Austin	Monitoring infectious diseases and their diffusion	Chair	2001
Steve Hochart	Mapping local census data	Chair	2001
Richard Caswell	School enrollment projections	Chair	2003

#### Graduate Degree Committees:

	<u>Student</u>	<u>Year Degree Completed</u>	<u>Chair/Member</u>	<u>Optional Info (e.g. Current Employment)</u>
Masters:	S. Teplitzky	left program	Chair	enrolled in Geography at UC Berkeley.
		Year Degree	Chair/	Optional Info (e.g.

(MAs cont.)	<u>Student</u>	<u>Completed</u>	<u>Member</u>	<u>Current Employment</u>
	P. Alagona	2000	Member	
	M. Morais	2001	Member	
	N. Nagle	2002	Chair	continuing for Ph.D.
	J. Corbett	in progress	Member	currently on leave at the U.S. State Department
	R. Sexton	2002	Member	
	E. Middleton	in progress	Chair	
	A. Domas	2002	Member	currently employed at S.B. City Planning Dept.
	M. Marsh	2003	Member	continuing for Ph.D.
	E. Leckey (UCSB Geology)	2003	Member	continuing for Ph.D.
Ph.D.:	M. Figueroa	left program	Member	left school
	D. Mattheis (SDSU)	on leave	Member	left school due to severe health problems
	K. Konty	in progress	Chair	
	H. Renski (UNC)	in progress	Member	
	Y. Kim (SDSU)	in progress	Member	
	N. Nagle	in progress	Chair	
	R. Farrell	in progress	Chair	
	J. Raymer (CU Boulder)	in progress	Member	
	M. Janikas (SDSU)	in progress	Member	
	W. Corrigan	in progress	Member	

#### Other Teaching Contributions:

- Guest lecture in Statistics 230, Statistical Consulting.
- Faculty mini-grant to create computer modules and assignments for Geog. 172L.
- Created new modules/lecture materials for Geog. 5 in conjunction with Alexandria Digital Earth Prototype
- Faculty mini-grant to incorporate drug awareness material into Geog. 5.
- Taught honors sections for Geog. 5 in 1999, 2000, 2001, and 2003.
- Department of Geography faculty coordinator for the Summer Institute in Mathematics and Science (SIMS), 2000- 2001.
- Participant in the UCSB New Student Convocation, 2001.
- Hosted and advised Simon Sanchez, a graduate student in economic geography and operations research from the University of Madrid, summers of 2000 and 2001.
- Instructor, Center for Spatially Integrated Social Science, GIS and Spatial Analysis in Demography Workshop, Pennsylvania State University, 2003.
- Completed *Teaching Statistics using Active Learning* short course offered through LearnStat, American Statistical Association (Instructor: Rossman and Chance)
- Created new courses in *Population Geography* (143, 243), substantially revised courses in regional analysis (185C, 224), and a new lower division undergraduate course, *The Geography of Surfing*.

### PART III. PROFESSIONAL ACTIVITIES

#### Lectures Presented:

<u>Month/Year</u>	<u>Topic/Place</u>
April 1995	“Theoretical and Econometric Assumptions in Regional Employment Growth Models and Their Effect on Model Interpretation and Specification.” <i>Southern Regional Science Association Meetings</i>
April 1996	“Geographic Clustering Among Linked Producers: An Application of Second-Order Analysis for Inhomogeneous Populations.” <i>Association of American Geographers Annual Meeting</i>
Nov. 1996	“Testing for Geographic Clustering of Establishments by Size and Type.” <i>North American Meetings of the Regional Science Association International</i>
Nov. 1996	“The Demographic and Geographic Structure of Occupational Migration.” <i>North American Meetings of the Regional Science Association International</i>
Feb. 1997	“Are Americans Migrating Less But with Greater Spatial Focus?” <i>Western Regional Science Association Meetings</i>
Feb. 1997	“Interstate and Sub-state Occupational Migration: Econometric Models with Occupation-Specific Explanatory Variables.” <i>Western Regional Science Association Meetings</i>
Mar. 1998	“Estimation of Occupational Mobility and Migration from Incomplete Data.” <i>Association of American</i>

- Geographers Annual Meeting*
- Mar. 1998 “Out-migration and Regional Economic Distress,” **Invited Speaker**, *U.S. Economic Development Administration, Chicago Regional Conference.*
- Aug. 1998 “The Effect of Regional Out-migration on Job Openings by Occupation.” *European Regional Science Association Meetings.*
- Feb. 1999 “Out-migration, Depopulation, and Regional Economic Distress: Spatial and Temporal Sensitivity Analysis” *Western Regional Science Association Meetings (awarded Springer-Verlag Award)*
- July. 1999 “Out-migration and Regional Economic Distress,” **Invited Speaker**, *U.S. Economic Development Administration, Denver Regional Conference.*
- Oct. 1999 “Migration and the state occupational employment projections process - progress report,” *Annual Meeting of the ALMIS Long-term Census Tools Consortium, U.S. Education and Training Administration.*
- Feb. 2000 “Planning Decline: Lessons from the Nation’s Heartland,” **Invited Speaker**, *UCLA Department of Geography.*
- Feb. 2000 “Regional occupational employment projections: Modeling supply constraints in the direct-requirements approach,” *Western Regional Science Association Meetings*
- Mar. 2000 “Planning Decline: Lessons from the Nation’s Heartland,” *Population Association of America Annual Meeting.*
- Aug. 2000 “Spatial analytic methods for identifying industry clusters,” **Invited Speaker**, *World Bank.*
- Nov. 2000 “Theory, methods, and a cross-metropolitan comparison of business clustering,” *North American Meetings of the Regional Science Association International*
- Dec. 2000 “Overview of ADEPT and CSISS,” **Invited Speaker**, *U.S. Department of Housing and Urban Development.*
- Mar. 2001 “Population forecasting with non-stationary multiregional growth matrices,” *Association of American Geographers Annual Meeting.*
- April 2001 “Business location and spatial externalities: Tying concepts to measures,” **Invited Speaker**, *Quantitative Methods for Social Sciences, UCSB.*
- May 2001 “Using spatial-longitudinal data for policy research,” **Invited Plenary Speaker**, *National Labor Market Information Conference, U.S. Bureau of Labor Statistics.*
- June 2001 “Migration and the state occupational employment projections process - final report,” *Annual Meeting of the ALMIS Long-term Census Tools Consortium, U.S. Education and Training Administration.*
- July 2001 “Population forecasting with non-stationary multiregional growth matrices,” *Pacific Conference of the Regional Science Association International.*
- July 2001 “Business location and spatial externalities: Tying concepts to measures,” *Pacific Conference of the Regional Science Association International.*

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since last review

- March 2002 “On spatialization and migration models,” *Association of American Geographers Annual Meeting.*
- March 2002 “CSISS Workshops: Diffusing spatial concepts and methods,” *Association of American Geographers Annual Meeting.*
- April 2002 “Population forecasting with non-stationary multiregional growth matrices,” **Invited Speaker**, *Quantitative Methods for Social Sciences, UCSB.*
- May 2002 “On modeling change in migration systems,” **Invited Speaker**, *Migration Speaker Series, U.S. Census Bureau.*
- June 2002 “Sub-county trend projection methodology: population and households,” **Invited Speaker**, *Southern California Association of Governments*
- October 2002 “Enabling spatial demography: A review of tools and resources,” **Invited Speaker**, *Southern Demographic Association meeting.*
- Nov. 2002 “Correcting for sampling bias using stratified random thinning,” *North American Meetings of the Regional Science Association International*
- Nov. 2002 “Space-time analysis of industry concentration,” *North American Meetings of the Regional Science Association International*
- Dec. 2002 “Enabling spatial demography: concepts, tools, and resources,” **Invited Speaker**, *Demography Seminar, University of Wisconsin, Madison.*
- Dec. 2002 “Small area population projections using stochastic simulation,” **Invited Speaker**, *Applied Demography Seminar, University of Wisconsin, Madison.*
- Feb. 2003 “Stratified thinning of spatial point patterns: a cautionary tale of inference on spatial censored data,” *Western Regional Science Association Meetings.*
- Mar. 2003 “Small area population projections using stochastic simulation,” *Association of American Geographers*

April 2003	<i>Annual Meeting.</i> "Small area population projections using stochastic simulation," <i>Annual Meeting, Population Association of America.</i>
May 2003	"Enabling spatial demography: concepts, tools, and resources," <b>Invited Speaker</b> , CSISS Workshop, Population Science and GIS, Pennsylvania State University.
Sept 2003	"Population distribution from remote sensing," <b>Invited Session Chair</b> , Conference on Migration, Urbanization, and Health: The Role of Remote Sensing and Geographic Information Systems for Monitoring, Surveillance, and Program Evaluation, Princeton University.

#### Grants and Contracts:

<u>Years</u>	<u>Source/Title</u>	<u>Amount</u>	<u>P.I.</u>
1998-99	UCSB Office of Research (Research Across Disciplines) "Identifying Maya Archaeological Sites in the El Pilar Region."	\$50,000	co-P.I.
1999-00	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	P.I.
1999-00	UCSB, Faculty Mini-grant	\$1,000	P.I.
2000-03	"Collaborative Research: The Clustering of U.S. Business Enterprises in the 1990s" National Science Foundation.	\$69,869	co-P.I.
2000-01	"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	P.I./consultant
2001	UCSB, Drug-awareness faculty mini-grant.	\$2,500	P.I.
2001	UCSB Junior Faculty Research Incentive Award	\$5,000	
2001	"Sub-county population and housing projections," Southern California Association of Governments.	\$74,921	P.I.
2001-03	"Divining the Future of S.B. Schools: Enrollment Forecasts, Capital Planning, and Educational Equity." Pearl Chase Fund, UCSB Academic Senate	\$16,251	P.I.

#### Awards and Honors:

1999	Springer-Verlag Award for the Best Paper at <i>Western Regional Science Association's Annual Meeting.</i>
2001	Elected Vice-chair of the Spatial Analysis and Modeling specialty group of the Association of American Geographers.

#### Reviewing and Refereeing Activity:

Journal Referee:	<i>Journal of Geographical Systems, Location Science, Geographical Analysis, Environment and Planning B, Journal of Regional Science, Professional Geographer, Annals of the Association of American Geographers, Mathematical Population Studies, International Regional Science Review, Journal of Geography, Papers in Regional Science.</i>
Proposal Reviewer:	<i>National Science Foundation.</i>

Conference Referee: Session discussant (4 papers), GIS and Spatial Models, Population Association of America

### **Special Appointments:**

- 1999-03 Executive Committee, Center for Spatially Integrated Social Sciences
- 2000-03 Visiting Researcher, U.S. Bureau of Labor Statistics
- 2001-03 Vice-chair, Spatial Analysis and Modeling Specialty Group, Association of American Geographers
- 2001-03 Advisory Committee, Community Statistical Systems Working Group, Shimberg Center/Ford Foundation
- 2003-05 Steering Committee, Quantitative Methods for Social Sciences, UCSB
- 2002-03 Expert Panelist, Economic and Demographic Issues, Southern California Association of Governments.

### **Other Professional Contributions:**

- 2000 Participant, Bayesian Perspectives in the Social Sciences, University of Washington.
- 2001 Invited committee member and participant, Conference Planning Meeting, Building Community Data Resources, *Ford Foundation*, Washington, DC.
- 2002 Conference Program Committee, North American Meetings of the Regional Science Assc. International
- 2003 Conference Program Committee, Western Regional Science Association
- 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*
- 2003 Participant, *CSISS Specialist Meeting on Spatial and Social Interactions in Economics*
- 2003 Lecturer, CSISS National Workshop, *Population Science and GIS*, Pennsylvania State University.

## **PART IV. SERVICE**

### **University Service**

- 1998-03 Department of Geography, Colloquium Committee
- 1998-01 Department of Geography, Entertainment Committee
- 1999-03 Department of Geography representative to the Faculty Legislature
- 1999-03 Affiliated Faculty, Quantitative Methods for Social Sciences Working Group
- 2000-03 Dept. of Geography Faculty Coordinator, Summer Institute in Mathematics and Sciences (SIMS)
- 2001-03 Department of Geography, Diversity Committee
- 2001 Faculty participant, UCSB New Student Convocation
- 2002-03 Faculty Search Committee, Population Geography Position, Department of Geography
- 2003-05 Steering Committee, Quantitative Methods for the Social Science
- 2003 Faculty participant (Faculty-Student Discussion), UCSB New Student Convocation

### **Public Service**

- 2001 Worked with Sara Fabrikant and *Santa Barbara Newspress* reporters Scott Hadley and Nora Wallace to prepare data and maps for a series of local articles based on the 2000 Census data.
- 2000-01 Geography Awareness Week presentations at Foothill Elementary School
- 2000-03 Volunteer, American Youth Soccer Organization.
- 2002-03 Working with Santa Barbara City Schools to improve enrollment forecasts; funded by Pearl Chase Funds, UCSB Academic Senate.
- 2002-03 Worked as analyst and expert panelist for Southern California Association of Governments in their preparation of the 2030 population/household forecasts and regional transportation plan.