

## DAVID ALLEN PLANE

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### EDUCATION

Cornell University		1972	Summer Program, Architecture & Planning
Université de Toulouse - Le Mirail		1976	Foreign Study Program
Dartmouth College	B.A.	1976	Geography; Urban and Regional Studies
University of Pennsylvania	M.A.	1977	Regional Science (Transportation Concentration)
	Ph. D.	1981	Regional Science

### MAJOR FIELDS

Population (Migration), Transportation, Regional Science, Regional Development, Quantitative Modeling

### EMPLOYMENT

Professor, Department of Geography and Regional Development, University of Arizona, Tucson, AZ  
(1992 to present)  
Visiting Researcher, Population Division, U.S. Census Bureau, 2001-2002  
Head, Department of Geography and Regional Development, University of Arizona, Tucson, AZ  
(1990 to 1997; and Acting Head, 2000-2001)  
Associate Professor of Geography and Regional Development, University of Arizona, Tucson, AZ  
(1986 to 1992)  
Assistant Professor of Geography and Regional Development, University of Arizona, Tucson, AZ  
(1981 to 1986)  
Statistician, U.S. Bureau of the Census, Washington, DC  
(1979 to 1980)  
Assistant Planner, Office of the St. Lawrence County Planning Board, Potsdam, NY  
(Various periods, 1974 to 1976)

### SELECTED PUBLICATIONS

#### *Books and Monographs*

*The Geographical Analysis of Population: With Applications to Planning and Business.* (New York: John Wiley & Sons, 1994). 417 pp. (D.A. Plane and P.A. Rogerson).  
*Fifty Years of Regional Science.* (Berlin: Springer-Verlag, 2004). 400+viii pp. (Raymond J.G.M. Florax and David A. Plane, coeditors)  
*Micropolitan / Metropolitan USA: Demographic Rankings of the New Core Based Statistical Areas.* Census 2000 Special Reports, CENSR-5. Marc Perry, Rachel Franklin, and David Plane. (2006, forthcoming)  
*Highlights in Regional Planning.* (Amsterdam: Kluwer-Nijhoff, 2006 forthcoming).

#### *Refereed Journal Articles*

The geography of urban commuting fields: some empirical evidence from New England, *Professional Geographer* 32 (1981) 182-188.  
Estimation of place-to-place migration flows from net migration totals, *International Regional Science Review* 6 (1981) 33-52.  
Recent migration patterns in the developed world: a clarification of some differences between our and IIASA's findings, *Environment and Planning A* 13 (1981) 243-250 (D. R. Vining, R. Pallone, and D. A. Plane).  
An information theoretic approach to the estimation of migration flows, *Journal of Regional Science* 22 (1982) 441-456.  
Redistricting reformulated: a maximum interaction/minimum separation objective, *Socio-Economic Planning Sciences* 16 (1982) 241-244.

- Internal migration in the United States: an evaluation of federal data, *Review of Public Data Use* 10 (1982) 285-311 (A. M. Isserman, D. A. Plane, and D. B. McMillen).
- U.S. interstate labor force migration: an analysis of trends, net exchanges, and migration subsystems, *Socioeconomic Planning Sciences* 17 (1983) 251-266 (D. A. Plane and A. M. Isserman).
- Migration space: doubly-constrained gravity model mapping of relative interstate separation, *Annals of the Association of American Geographers* 74 (1984) 244-256.
- The cross-regional variation of in-migration and out-migration, *Geographical Analysis* 16 (1984) 162-175 (D. A. Plane, P. A. Rogerson, and A. Rosen).
- A systemic demographic efficiency analysis of U.S. interstate population exchange, 1935-80, *Economic Geography* 60 (1984) 294-312.
- Modeling temporal change in flow matrices, *Papers of the Regional Science Association* 54 (1984) 147-64 (P. A. Rogerson and D. A. Plane).
- Economic-demographic models for forecasting interregional migration, *Environment and Planning A* 17 (1985) 185-198 (D. A. Plane and P. A. Rogerson).
- A general model for estimating the number of tertiary establishments in communities: an Arizona perspective, *Social Science Journal* 22 (1985) 77-93 (G. F. Mulligan, M. L. Wallace, D. A. Plane).
- Forecasting interstate migration with limited data: a demographic-economic approach, *Journal of the American Statistical Association* 80 (1985) 277-285 (A. M. Isserman, D. A. Plane, P. A. Rogerson, and P. M. Beaumont).
- Dynamic flow modeling with interregional dependency effects: an application to structural change in the U.S. migration system, *Demography* 23 (1986) 91-104 (D. A. Plane and P. A. Rogerson).
- The geographic components of change in a migration system, *Geographical Analysis* 19 (1987) 283-99.
- Competition for university enrollments: the repercussions of changing U.S. age composition, 1978 to 2001, *The Social Science Journal* 26 (1989) 205-221.
- Population migration and economic restructuring in the United States, *International Regional Science Review* 12 (1989) 263-280.
- A causative matrix approach to interpreting structural change, *Economic Systems Research: The Journal of the International Input-Output Association* 2 (1990) 261-270 (R. Jackson, P. A. Rogerson, D. A. Plane, and B. O'hUallachain).
- Tracking the baby boom, the baby bust, and the echo generations: how age composition regulates US migration, *Professional Geographer* 43 (1991) 416-430 (D. A. Plane and P. A. Rogerson).
- New directions in migration research: perspectives from some regional science disciplines, *The Annals of Regional Science* 25 (1991) 237-270 (M. J. Greenwood, P. R. Mueser, D. A. Plane, and A. M. Schlottmann).
- Age-composition change and the geographical dynamics of interregional migration in the U.S., *Annals of the Association of American Geographers* 82 (1992) 64-85.
- Requiem for the fixed-transition-probability migrant, *Geographical Analysis* 25 (1993) 211-223.
- Demographic influences on migration, *Regional Studies* (1993) 375-383.
- The wax and wane of interstate migration patterns in the US in the 1980s: A demographic effectiveness field perspective, *Environment & Planning A* 26 (1994) 1545-1561.
- Comment: On discipline and disciplines in regional science, *Papers in Regional Science: The Journal of the RSAI* 73 (1994) 19-23.
- Migration patterns during a period of political and economic shocks in the former Soviet Union: A case study of Yaroslavl' oblast. *Professional Geographer* 47, 1 (1995) 17-30. (B. A. Mitchneck and D. A. Plane)
- Employment trends in geography; Part 1: Enrollment and degree patterns. *Professional Geographer* 47, 3 (1995) 317-328. (P. Gober, A. K. Glasmeier, J. M. Goodman, D. A. Plane, H. A. Stafford, and J. S. Wood)
- Employment trends in geography; Part 2: Current demand conditions. *Professional Geographer* 47, 3 (1995) 329-336. (P. Gober, A. K. Glasmeier, J. M. Goodman, D. A. Plane, H. A. Stafford, and J. S. Wood)
- Employment trends in geography; Part 3: Future demand conditions. *Professional Geographer* 47, 3 (1995) 336-346. (P. Gober, A. K. Glasmeier, J. M. Goodman, D. A. Plane, H. A. Stafford, and J. S. Wood)
- The quasi-labor market in Russian cities. *International Regional Science Review* 21 (1995) 267-288. (B. A. Mitchneck and D. A. Plane)

- The role of migration research in regional science. *Papers in Regional Science: The Journal of the RSAI* 76 (1997) 133-153. (D. A. Plane and C. Bitter)
- Measuring spatial focusing in a migration system. *Demography* 34 (1997) 251-262. (D. A. Plane and G. F. Mulligan).
- The dynamics of neighborhood age composition. *Environment and Planning A* 30 (1998) 1461-1472 (P. A. Rogerson and D. A. Plane).
- Fuzzy set migration regions. *Geographical & Environmental Modelling* 2 (1998) 141-162.
- Migration drift. *Professional Geographer* 51 (1999) 1-11.
- Geographical pattern analysis of income migration in the United States. *International Journal of Population Geography* 5 (1999) 195-212.
- The role of regional science in migration research. *The Review of Regional Studies* 29 (2000) 79-83.
- Methods of mapping migration flow patterns. *Southeastern Geographer* 41 (2001) 89-104. (S. C. Holland and D. A. Plane)
- Streams, Flows, Currents, Cycles, and Regimes: Propositions on the Spatiotemporal Nature of Migration Systems. *International Journal of Environmental Creation*. 4 (2001) 60-73.
- Age Articulation of U.S. Inter-metropolitan Migration. *The Annals of Regional Science* 37 (2003) 107-130. (D. A. Plane and F. Heins)
- Perplexity, Complexity, Metroplexity, Microplexity: Perspectives for Future Research on Regional Growth and Change. *The Review of Regional Studies* 33 (2003) 104-120.
- Palm Trees and Steel Bees: Berkeley, Spring 1969. *you are here: the journal of creative geography* 5 (Summer 2003) 30-32.
- Introducing the Brightest of Dawns: Regional Science in "Papers." *Papers in Regional Science* 83, 5-29.
- A Shift-Share Method for the Analysis of Regional Fertility Change: An Application to the Decline of Childbearing in Italy, 1952-1991. *Geographical Analysis* 36 (2004) 1-20. (R. Franklin and D.A. Plane)
- The Post-Trevartha Boom: The Rise of Demographics and Applied Population Geography. *Population, Space, and Place* 10 (2004) 285-288.
- The Conditions of Coastality (Presidential Address). *Yearbook of the Association of Pacific Coast Geographers* 67 (2005) 9-23.
- Migration up and down the urban hierarchy and across the life course. *Proceedings of the National Academy of Sciences* 102 (2005) 15313-15318 (D. A. Plane, C. J. Henrie, and M. J. Perry)
- Pandora's Box: The Potential and Peril of Migration Data from the American Community Survey. *International Regional Science Review* 29 (2006) 231-246. Rachel S. Franklin and David A. Plane.
- Decentralization of the Nation's Main Street: New Coastal-Proximity-Based Portrayals of Population Distribution in the United States, 1950-2000. Christopher J. Henrie and David A. Plane. *Professional Geographer* 58 (2006) in press.

### **Chapters in Scholarly Books**

- The ECESIS economic-demographic model of the United States. Chapter 9 in *Population Change and the Economy*, ed. A. M. Isserman. Boston and The Hague: Kluwer-Nijhoff (1986) 203-238 (P. M. Beaumont, A. M. Isserman, D. B. McMillen, D. A. Plane, and P. A. Rogerson).
- The interregional impacts of U.S. core-periphery net migration. Chapter 3 in *Regional Structural Change: Experience and Prospects in Two Mature Economies*, eds. L. J. Gibson and R. J. Stimson. Peace Dale, RI: Regional Science Research Institute, Monograph Series No. 8 (1989) 33-46.
- US migration pattern responses to the oil glut and recession of the early 1980s: an application of shift-share and causative matrix techniques. Chapter 15 in *Advances in Regional Demography*, eds. P. Congdon and P. Batey. London: Belhaven Press (1989) 258-280 (D. A. Plane and P. A. Rogerson).
- The ten commandments of migration research. In *Regional Science: Retrospect and Prospect*, eds. D. E. Boyce, P. Nijkamp, and D. Shefer, pp. 15-42. Berlin: Springer-Verlag (1991).
- Population migration and economic restructuring in the United States." In *Modern Classics in Regional Science: Regional Dynamics*, eds. Kingsley E. Haynes, Kenneth J. Button, and Peter Nijkamp. London: Edward Arnold (1996)
- Long-term influences on migration patterns. Sidebar in *Rediscovering Geography*. Washington, DC:

- National Academy of Sciences, National Research Council (1997).  
 Time series perspectives and physical geography analogies in migration research. In Kavita Pandit and Suzanne Davies Withers (eds.) *Migration and Restructuring in the U.S.: A Geographic Perspective*. Rowman and Littlefield (1999).  
 The Role of Medium-Sized Cities in Recent Growth and Migration Trends in the United States. Pp. 60–67 of François Charbonneau, Paul Lewis, and Claude Manzagol (eds.) *Villes moyennes et mondialisation: Renouveau de l'analyse et des stratégies* (Montréal: Éditions Trames, 2003).  
 Population Distribution: Geographic Areas. Chapter 5, pp. 81–104 of David A. Swanson and Jacob S. Siegel (eds.) *The Methods and Materials of Demography*. 2<sup>nd</sup> Edition. San Diego and London: Elsevier Academic Press (2004).  
 Introducing the Brightest of Dawns: Regional Science in 'Papers.' Pp. 5–30 of Raymond J.G.M. Florax and David A. Plane (eds.) *Fifty Years of Regional Science*. Heidelberg: Springer (2004). (Raymond J.G.M. Florax and David A. Plane)  
 North America: a region of core peripheral extremes. Chapter 2, pp. 41–84 in H.S. Geyer, *Global Regionalization: Core Peripheral Trends*. Cheltenham, UK and Northampton, MA, USA: Edgar Elgar Publishers (2006). (Harry W. Richardson, Larry S. Bourne, Peter Gordon, Christopher J. Henrie, David Plane, Jim Simmons, and Bumsoo Lee)

### **EXTRAMURAL SERVICE (Selected Principal Activities)**

- Coeditor, *Journal of Regional Science*, 1994-2002  
 Senior Editor, *Journal of Regional Science*, 2002-present  
 Editor-in-Chief, *Papers in Regional Science: The Journal of the Regional Science Association International*, Term: 1990-92  
 Coeditor (North American), *Papers of the Regional Science Association*, 1984-89  
 Editorial Boards:  
   International Regional Science Review, 1985-present  
   Canadian Journal of Regional Science, 1994-present  
   Papers in Regional Science, 1993-97; 1999-present  
   Geographic and Environmental Modelling, 1996-2002  
   Geographical Analysis, 1987-90, 2003-2005  
   Journal of the Institute of Environmental Creation, 2000-  
   Studies in Regional Science, 2000-present  
   Annals of Regional Science, 2002-present  
   Population Research and Policy Review, 2003-present  
 Population Specialty Group, Association of American Geographers  
   (President, 1989-90; Vice-President, 1988-89; Director, 1985-88)  
 Association of Pacific Coast Geographers  
   Co-organizer, Annual Meetings, Tucson, 1991  
   Vice President, 2002-2003  
   President, 2003-2004  
 Regional Science Association International  
   Councillor (ex officio), 1984-92; Chair, Ad hoc Committee on the Creation of a North American Organizing Committee, 1987-88; Drafter, The Constitution of the North American Regional Science Council, 1987-89; Councillor (ex officio), North American Regional Science Council, 1989-91; Councillor (voting), North American Regional Science Council, 1992-; Councillor (WRSA representative), North American Regional Science Council, 1992-; Councillor, Pacific Regional Science Conference Organization (PRSCO), 1998-; Vice President-Elect, PRSCO, 1999; Codrafter, Constitution of the Regional Science Association International, 1988-89; Executive Committee, North American Regional Science Council, 1992-93; Publications Committee, Regional Science Association International, 1993-97; Constitution Subcommittee, Pacific Regional Science Conference Organization, 1997; Co-Organizer, North American Meetings, 1993 (Houston); Local Arrangements Chair, North American Meetings, 1998 Santa Fe Pacific Regional Science Conference Organization, President, 2003-2004; Immediate Past President 2005–2006

Western Regional Science Association

Executive Secretary, 1991-present; Editor, Western Regional Science Association Newsletter, 1986-present

Primary Organizer and Cochair, Annual Meeting Program Committees, 1992-present; Cochair, Program Committees, 1985-91; Member, Program Committees, 1981-84

National Science Foundation

Geography & Regional Science Program, Proposal Awards Panel, 1992-94; Geography & Regional Science Program, Dissertation Awards Panel, 1989-90; Ad hoc Committee to review the Geography & Regional Science Program, 1988