

# MICHAEL KASTON REILLY

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## Education

- Post-Doc Stanford University, Woods Institute for the Environment, Fall 2006–present
- Post-Doc Columbia University, Earth Institute, Fall 2005–Summer 2006
- Ph.D. University of California at Berkeley, City and Regional Planning, Winter 2005  
*Location Choices of California Firms and Residents*  
John Landis (chair), Robert Cervero, and John Quigley  
examination fields: urban economic analysis and modeling; spatial ecological modeling
- M.C.P. University of California at Berkeley, City and Regional Planning, 1997  
*Proposition 13's Impact on the San Francisco Bay Area's Regional Growth Pattern*
- B.A. University of California at Berkeley, Anthropology, 1994

## Research Experience

- From the Bay Area to Bangalore* (September 2006–present)  
for the Woods Institute for the Environment, Stanford University  
conducting interdisciplinary research on the Silicon Valley, the Pearl River Delta, and Bangalore
- Future of Urban Transport* (October 2005–Summer 2006)  
for the Center for Sustainable Urban Development & the Volvo Research and Educational Foundations  
modeled transport and land use and devised regional growth strategies in Nairobi
- Making Do: How America's Working Families Trade Off Housing Costs, Travel Time & Travel Expenditures*  
for the Center for Housing Policy (June 2005–August 2005)  
modeled household joint choice of metropolitan setting, neighborhood, and mode choice
- Estimating the Supply of Infill Sites, Infill Capacity and the Demand for Infill Living* (June 2004–June 2005)  
for the California State Business, Transportation and Housing Agency  
modeled market demand for infill housing and built a web-based spatial decision support system
- California Legacy Project* (June 2002–December 2004)  
for the California State Resources Agency  
modeled urbanization statewide under multiple scenarios; stakeholder outreach and presentations
- California Urbanization and Landscape Analysis Model* (October 2000–June 2005)  
for the Packard Foundation & the State of California  
developed a statewide urbanization and habitat conservation spatial decision support system
- Space, Culture, and Urban Policy: Integrating GIS into Social Science Methods Courses* (July 2003–2005)  
for the San Francisco State University Urban Studies Department under NSF funding  
providing technical and substantial advice towards the development of a model GIS curriculum
- Mapping Conflicts between Urban Growth and Military Bases in California* (October 2000–December 2001)  
for the US Defense Department & the California State Commerce Agency  
assessed spatial conflict between military bases and urban growth trajectories
- The Effect of Land Use on Non-Work Home-Based Travel Behavior* (May 2000–May 2001)  
for the University of California Transportation Center, UC Berkeley  
modeled the impact that physical neighborhood characteristics have on local trip-making mode

*The Dimensions of Sprawl* (August 1998–August 1999)  
for the Public Policy Institute of California & the Lincoln Land Institute  
assembled statewide geographic database, developed morphological metrics, modeled urbanization

*Raising the Roof: An Update to the California State Housing Plan* (May 1998–August 1998)  
for the California State Housing and Community Development Department  
assembled geographic database to assess geographic constraints and modeled redevelopment potential

*Landscape Biodiversity Project* (January 1997–February 1998)  
for the United States National Biological Survey  
developed the California Urbanization and Biodiversity Analyst, a spatial decision support system

## Teaching Experience

University of California at Berkeley, Department of City and Regional Planning

### Lecturer

*Economic Analysis for Planning* (undergraduate level): 2007

*Introduction to Computer Mapping* (graduate level): 2005

### Instructor

*Advanced GIS: Spatial Analysis and Modeling* (graduate level): 2000, 2001, 2002, 2003

*Introduction to Computer Mapping* (graduate level): 2003

### Teaching Assistant

*Introduction to Computer Mapping* (graduate level): 1998, 1999, 2001, 2002

*Data Analysis for Planning* (graduate level): 1997

San José State University, Department of Urban and Regional Planning

### Lecturer

*Planning Applications in Geographic Information Systems* (graduate level): 2004, 2005

San Francisco State University, Department of Geography and Human Environmental Studies

### Lecturer

*Introduction to Geographic Information Analysis* (undergraduate level): 2005

University of California at Berkeley, Department of Landscape Architecture and Environmental Planning

### Teaching Assistant

*Introduction to Geographic Information Science* (undergraduate level): 2000

University of California at Berkeley, Geographic Information Science Center

### Instructor

*The Raster Spatial Model* (professional level): 1998

## Urban Planning Experience

Cambridge Systematics, Oakland CA (February 2003–present)

modeling urban growth and environmental impacts for the California High-Speed Rail EIR/EIS

Stratus Consulting, Boulder Colorado (Summer 2002)

built urbanization component of global warming assessment project

Kajima Corporation, Tokyo Japan (Summer 1996)

conducted background analysis for large mixed-use development projects

Pittman and Hames, Land Use and Transportation Planners, San Francisco CA (January 1995–June 1995)

developed graphics and facilitated public participation for transportation projects

San Francisco City Planning Department (June 1994–December 1994)

studied pedestrian behavior through surveys, time-lapse filming, and observation

## Publications

- Reilly, Michael, Margaret O'Mara, and Karen Seto. "From Bangalore to the Bay Area: Comparing Transportation and Activity Accessibility as Drivers of Urban Growth" *Landscape and Urban Planning*, in review.
- Reilly, Michael. "The Spatial Dynamics of California Firms During the 1990s" *Regional Science and Urban Economics*, in review.
- Reilly, Michael. "Ethnicity and Residential Location Choice in California" *Urban Studies*, in review.
- Landis, John, Michael Reilly, and Charles Warren. "Estimating the Current and Future Demand for Infill Living" *Environment and Planning B*, in review.
- Landis, John and Michael Reilly "Urbanization Scenarios" in Joel Smith and Robert Mendelsohn (eds.) *The Impact of Climate Change on Regional Systems*. New York: Edward-Elgar Publishing, 2006.
- Landis, John, Heather Hood, Guangyu Li, Michael Reilly, Thomas Rogers, and Charles Warren. *The Future of Infill Housing in California: Opportunities, Potential, Feasibility and Demand*. Volume II. Sacramento: California Business, Transportation and Housing Agency, 2005.
- Landis, John and Michael Reilly. "How We Will Grow: Baseline Predictions of California's Urban Footprint Through the Year 2100" in Subhrajit Guhathakurta (ed.) *Integrated Land Use and Environmental Models*. Berlin: Springer, 2003.
- Reilly, Michael and John Landis. "The Influence of Built Form on Transport Behavior" University of California Transportation Center, Working Paper, 2003.
- Landis, John, Lan Deng, and Michael Reilly. "Growth Management Revisited: A Reassessment of Its Efficacy, Price Effects, and Impacts on Metropolitan Growth Patterns" Institute of Urban and Regional Development, University of California at Berkeley, Working Paper, 2002.
- Landis, John, Michael Reilly, Robert Twiss, Howard Foster, and Patricia Frontiera. *Forecasting and Mitigating Future Urban Encroachment Adjacent to California Military Installations: A Spatial Approach*. California State Technology, Trade, and Commerce Agency, 2001.
- Landis, John, Michael Smith-Heimer, Michael Larice, Michael Reilly, Mary Corley, and Oliver Jerchow. *Raising the Roof: Update to the California Statewide Housing Plan*. California State Department of Housing and Community Development, 2000.
- Landis, John, Pablo Monzon, Michael Reilly, and Chris Cogan. *Development and Pilot Application of the California Urbanization-Biodiversity Analyst Model*. Institute of Urban and Regional Development, University of California at Berkeley, Working Paper, 1998.
- Reilly, Michael. Book Review of Mike Davis' *Ecology of Fear*. *Berkeley Planning Journal*. 1999.
- Reilly, Michael. *Recommended Pedestrian Improvements for the Powell Street Turnaround Area*. San Francisco City Planning Department, 1994.

## Conference Presentations

- American Association of Geographers, San Francisco, 2007: *Modeling the Influence of Business Location Choices in California*.
- Global Carbon Project's Carbon Management at Urban and Regional Levels, Mexico City, 2006: *Spatial Configuration and the Urban Carbon Footprint*
- Population Association of America, Los Angeles CA, 2006: *Understanding Exurban Growth*
- Center for Environmental Research and Conservation, Columbia University, 2005: *Urban Expansion and Habitat Conservation*
- International Postdoctoral Scientist Network for Earth Systems Science, Breckenridge, CO, 2005: *Modeling Urban Development over Very Large Regions*
- City|Space, Oakland, CA, 2004: *The City in Maps*
- American Collegiate Schools of Planning, Baltimore, 2002: *Toward an Empirical Model of Sub-Center Formation*

Transportation Research Board, Washington D.C., 2002: *The Influence of Built Form on Non-Work Travel*  
RAND Workshop on Population, Health, and the Environment, Santa Monica, 2001: *Modeling Humans in their Natural Environment*  
Geographic Information Science at Berkeley, Berkeley, 2000: *Modeling the Neighborhood Effect in Land Values*  
Population Association of America, New York, 1999: *Can Urbanization Be Predicted?*  
American Collegiate Schools of Planning, Pasadena, 1998: *The California Urbanization and Biodiversity Analyst*  
GAP Analysis Project Conference, Santa Barbara, 1998: *Modeling Urban Growth and Habitat Fragmentation*

## Awards

Fisher Center for Real Estate and Urban Economics Dissertation Grant, 2003–2004  
Outstanding Graduate Student Instructor, 2000  
Departmental Block Grant, 1997–1999  
Regents' Scholarship & National Merit Scholarship, 1990–1994

## Skills

Demographic Analysis: descriptive, cohort survival, household and tenure prediction  
Economic: location quotients, shift-share, input-output, development pro-forma, development location  
Statistical: multivariate analysis, categorical and discrete choice analysis, spatial statistics, multi-level modeling, neural nets  
Languages: proficient in Japanese  
Photography: 35mm composition and developing; video shooting and editing

## Computing Skills

Geographic Information Systems: ArcGIS, ArcINFO, ENVI, MapInfo, PCI, GRASS, MapPublisher, KML  
Statistics: SAS, S-Plus, SPSS, Stata, StatView, NLogit, R  
Transportation Modeling: TransCAD, Highway Capacity Software  
Data and Text Management/Spreadsheets: Excel, Access, FileMakerPro, Word, Nisus, EndNote, SQL  
Programming: Arc Macro Language (AML), Avenue, Python, IDL, VBA, limited C++  
Rendering and CAD: AutoCad, MicroStation, Alias, Maya, 3D Studio  
Page Layout, Web Design and Graphics: InDesign, Quark Xpress, DreamWeaver, Photoshop, Illustrator

## Activities

Departmental: organized DCRP Urban Film Series, finance chair for Spring Forum and Job Fair  
Memberships: American Collegiate Schools of Planning, Association of American Geographers, San Francisco Planning + Urban Research Association, S.F. Bicycle Coalition, Mechanics' Institute Library  
Journal editing: *Journal of Planning Education and Research*, *Berkeley Planning Journal*

## References

Professor John Landis, 215.746.2340, jlan@design.upenn.edu  
Professor Karen Seto, 650.736.1295, kseto@stanford.edu  
Professor Robert Cervero, 510.642.1695, robertc@berkeley.edu  
Professor John Quigley, 510.643.7411, quigley@econ.berkeley.edu