

# Academic Year 2008-2009

## Senior Research Project Titles ordered by AOC/Grand Challenge

Areas of Concentration	Grand Challenges	Research Projects	Mentor/s
<b>1. Architecture &amp; Urban Design</b>	1.1. Designing Regional Parks for Civic Vitality and Sustainability	1.1.1. Planning Parks for a More Social Experience, by Tae Kwon	<b>Judy Tjong and Patrick McDonough</b>
		1.1.2. Designing Parks with the Community Involved, by Laura Comstock	
		1.1.3. The Effects of Park Design for the Otay Valley Regional Park, by Jose Diaz	
		1.1.4. The Value of Open Space, by Vera Putzolu (Team Leader)	
	1.2. Greening of Buildings	1.2.1. Green Urban Design, by Eric Chen	<b>Wendy Tinsley Becker</b>
		1.2.2. Sustainable Architecture and Affordable Housing, by Kim Le	
		1.2.3. Going Green: Retrofitting Residential Homes for Improved Energy Efficiency, by Luke Hazelwood (Team Leader)	
		1.2.4. Healthy and Energy Efficient Green Products for Existing Buildings, by Joshua Pottruff	
1.3. Urban Design Master Planning	1.3.1. Biomimicry and Sustainable Urban Design, by Mearon Okonsky	<b>Mirle Bussell</b>	
	1.3.2. The Costs and Benefits of Green Architecture, by Kyle Ancheta		
	1.3.3. UCSD's Campus Community Environment, by Angelica Aquino (Team Leader)		
<b>2. Community &amp; Economic Development</b>	2.1. Equitable Redevelopment and Public Policy	2.1.1. Community Organizing for Equitable Redevelopment, by Daisy Gonzalez	<b>Corinne Wilson and Murtaza Baxamusa</b>
		2.1.2. Eliminating the Wage Gap in San Diego County, by Nick San Filippo	
		2.1.3. Field of Dreams: The Pursuit of Stadiums for Professional Sports Teams, by Whitney Brooks (Team Leader)	
		2.1.4. Governance by the People: The "Bungalow-Effect" on Redevelopment Policy in North Park, by David Windhorst	
	2.2. Greening of Industry and Public Policy	2.2.1. Implementing Public Policy to Increase Landfill Life Through Recycling, by Ashley To (Team Leader)	<b>Patti Krebbs</b>
		2.2.2. Public Policy and Water Conservation, by Brian Song	

<b>3. Environment</b>	3.1. Sustainability of Urban-Nature Ecosystems	3.1.1. Erosive Behaviors of Mountain Bicyclists: a Case Study of Pleasanton Ridge Regional Park, by Ryland Macfadyen	<b>Isabelle Kay</b>
		3.1.2. A Comparative Study of Climate Change Policy in San Diego, by Kristen Langford	
		3.1.3. UC San Diego's Natural Reserve System Conservation Management of Kendall-Frost Reserve, by Natalie Stiffler	
		3.1.4. Urban Natural Reserve Management: The Challenges of Balancing Human & Ecological Needs, by Katie Heineman (Team Leader)	
		3.1.5. An Analytical Debate on Water Management: Understanding How San Diego Can Help Solve Water Limitation, by Jesus Vazquez	
<b>4. Housing</b>	4.1. Affordable Housing	4.1.1. The Rise of Nongovernmental Organizations in Affordable Housing: A Case Study of City Heights, by Warren Yee	<b>Nico Calavita, Ken Grimes, Betsy Morris</b>
		4.1.2. Historic District Designation: Power of Place and Government Restrictions on Community Diversity, by Kanoa Kelley	
		4.1.3. Implementation Barriers for Affordable Housing in Transit-Oriented Developments, by Andrew Perez	
		4.1.4. Section 8 Rental Assistance Program and Time Limit Policies in San Diego, by Jasmin Kim	
		4.1.5. City Heights: The Gentrification and Displacement of Vulnerable Population, by Phuong Huynh (Team Leader)	
		4.1.6. Minimized Regulation Upon Lending Institutions Promotes Subprime Lending and Foreclosures, by Tyler Eliopoulos	
		4.1.7. The Effects of Affordable Housing on Redeveloping Areas, by Michelle Bennett	
		4.1.8. The Architecture of Affordable Housing: Does Design Matter?, by Andrew Goodrich	
<b>5. Infrastructure and Public Facilities</b>	5.1. Green Infrastructure for Sustainable City-Regions	5.1.1. San Diego River Park and It's Efforts to Improve the Water Quality of the San Diego River, by Andrew Kline (Team Leader)	<b>Rob Hutzel</b>
		5.1.2. Implementing New Regulations for Large Ocean Vessels, by Victor Ravelo	

<b>6. Public Health, Safety and Welfare</b>	6.1. Education and Equity	6.1.1. Working Hypotheses to the Variation in Underrepresented Minority Enrollment within the UC Campuses, by Jesus E. Ramirez	<b>Rafael Hernandez</b>
		6.1.2. The Transformation From Public To Charter: King/Chavez Public Schools, by Becky Gershon (Team Leader)	
		6.1.3. Deconstructing Bilingual Education: An Examination of the Impact of Proposition 227 on Student Testing Performance in Selected Districts and Schools in California, by Katherine Li	
	6.2. Emergency Preparedness and Community Well Being	6.2.1. Fire Emergency Management in San Diego County: A Case Study of Proposition A and Regional Fire Protection Agencies, by Priscilla Jang (Co-Team Leader)	<b>Phillip VanSaun and Alexandra Hubenko</b>
		6.2.2. Learning from Katrina: Importance of Mass Media Communication Activities and Community Readiness, by Jacky Kim (Co-Team Leader)	
	6.3. Crime and the City	6.3.1. Center for Community Solutions: Sexual Assault and Domestic Violence Intervention and Prevention, by Meron Mesfine	<b>Julie Wartell</b>
		6.3.2. Architectural Design as an Influential Factor of Fear of Crime, by Cecilia Gonzalez	
		6.3.3. Crime Prevention Through Public Art: An Analysis of San Diego's Art and It's Effect on Crime, by Kevin Highland (Team Leader)	
		6.3.4. Contribution of Technology to Crime Prevention, by Alejandro Martinez	
	<b>7. Transportation Planning</b>	7.1. Transportation Equity	7.1.1. Urgency for Inter-City Railway in Southern California, by Tim Lo
7.1.2. Bicycle Master Plans: A Tool for Promoting Sustainable Transportation Options on University Campuses, by Tyler Lau			
7.1.3. Green Parking is Smart Transportation Management, by Christine J. Wang			
7.1.4. Factors for Successful Transit Oriented Development (TOD) in San Diego County, by Matthew Egge (Team Leader)			
<b>9. Urban and Regional Planning</b>	9.1. Regional Comprehensive Planning	9.1.1. Mitigating Climate Change with Regional Transportation Planning, by Greg Behrens	<b>Bob Leiter</b>
		9.1.2. Evaluating Policy and Practice in San Diego's Transportation Infrastructure, by Oswaldo Perez (Team Leader)	
		9.1.3. Relationship Between Multidisciplinary Networking and Planning in the San Diego Region, by Andy Ma	
	9.2. Community and Regional Food Planning	9.2.1. The Costs and Benefits of Incorporating Agriculture in the City of San Diego, by Tamara Geiger (Team Leader)	<b>Ellee Igoe and Julie Osborn</b>
	9.3. Community Mapping and Comparative City Planning Analysis	9.3.1. Reintroducing Community in a Land of Sprawl, by Amanda Irvine (Team Leader)	<b>Tony Dillon</b>
		9.3.2. Economic Costs and Benefits of Redevelopment in Downtown San Diego, by Oliver Fu	

<b>10. US-Mexico Border Planning</b>	10.1. Planning for Sustainable Human Settlements	10.1.1. Border Settlements and Quality of Water: Tecate's Role in Environmental Stewardship Implementation, by Monica Coria (Co-Team Leader)	<b>Hiram Sarabia, Oscar Romo</b>
		10.1.2. Identifying the Organizational Culture of Cross Border Non-profit Organizations, by Alan Perusquia	
		10.1.3. Planning Sustainable Housing and Policies in the Trans-border Region. by Michael Opielowski (Co-Team Leader)	

The 16 Grand Challenges listed on this chart served as the organizing framework for 16 Student-Mentor Research Teams in UCSD's Urban Studies and Planning Program, Senior Sequence Class of 2008-2009. Professor: Keith Pezzoli, Ph.D. <http://seniorsequence.net/>

## ACKNOWLEDGMENTS

**Multimedia Support:** Harrison Watts, Web and IT Systems Developer, Office of Research Affairs, UCSD

**Postercasts:** Apryl Bailey, SciVee, San Diego Supercomputer Center, <http://www.scivee.tv/>

**Poster Design:** David Newbold, Geisel Library, BioMed Library, UCSD

**GIS and Mapping:** Tracey Hughes, GIS Lab Director, Geisel Library, UCSD

**Data and Government Docs:** Rebecca Hyde, Librarian for US Government Information, and Urban Studies & Planning, UCSD

Additional thanks to: (1) all our mentors and internship placement supervisors, (2) all UCSD entities that provided funding and/or technical support, including the National Institute of Environmental Health Sciences/ Superfund Basic Research Program, Environment and Sustainability Initiative, Office of International Affairs, Office of Research Affairs, Social Sciences Computing Facility, Social Sciences and Humanities Library GIS Lab, and (3) all other organizations/individuals that provided funds and/or technical support, including USP Steering Committee Members, Regional Workbench Consortium, Global Planning Initiative, Worldwide Universities Network, Telesis Corporation, Tijuana River National Estuarine Research Reserve, Center for Iberian and Latin American Studies, and Digital Mud, LLC.