

## Grand Challenges & Research Teams Organized by Areas of Concentration with Lead Mentor(s)

Areas of Concentration	Grand Challenges	Research Teams	Students	Mentors (*) and their affiliation
<b>1. Architecture and Urban Design</b>	1.1. Designing Urban Parks for Civic Vitality and Sustainability	1.1.1. Parks and open space planning for the common good	Mark Arroyo Dave Eng <b>Mayra Medel*</b> Chris Wong	<b>Judy Tjiong*</b> Department of Planning and Land Use, County of San Diego  <b>Patrick T. McDonough*</b> Senior Park Project Manager, County of San Diego
	1.2. Sustainable Design of Buildings & Urban-Ecological Landscapes	1.2.1. LEED criteria in theory and practice	<b>Hooman Bamdad*</b> Sean Mayer Keri Robinson Scott Roehrick	<b>Greg Nelson*</b> Ryan Companies US, Inc. (a national commercial real estate firm)
		1.2.2. Smart growth and new urbanism	Lisa Chau Juliet Oh <b>Willy Staley*</b> Danny Yun	<b>Michael Stepner*</b> Principal, Stepner Design Group; Professor, New School of Architecture and Design, San Diego
		1.2.3. Green buildings and sustainable design	<b>Dave Barg*</b> Yan Cheung Rachel Hunnicutt	<b>Paul Linden*</b> Blasker Professor of Environmental Science and Engineering, UCSD; Chair, Department of Mechanical and Aerospace Engineering, UCSD; Director, Environment and Sustainability Initiative, UCSD
		1.2.4. Regional heritage in architecture and urban design	Emma Feeney <b>Jamie Intervalo*</b> Nathaniel Kwak Charles Liu	<b>Brad Werdick*</b> Associate Planner, Physical Planning, UCSD  <b>Teddy Cruz</b> Professor, Visual Arts, UCSD
<b>2. Community &amp; Economic Development</b>	2.1. Neighborhood Visioning for Quality of Life	2.1.1. Participatory methods and civic engagement in community-based development	<b>Danielle Goldman*</b> Serena Ip Adelina Tancioco Rebecca Reyes Robert Mowry	<b>Mirle Rabinowitz Bussell*</b> Professor, Urban Studies and Planning, UCSD  <b>Kerry Sheldon</b> Local Initiatives Support Corporation (LISC), San Diego
	2.2. Equitable Redevelopment and public policy	2.2.1. Redevelopment in critical perspective: political economy and decision-making	Ted Faturos Amanda Lazerus Steven Mateer Robin Teager <b>Midori Wong*</b>	<b>Isaac Martin*</b> Professor, Department of Sociology; Urban Studies and Planning, UCSD  <b>Steve Erie</b> Professor, Political Science, UCSD; Director, Urban Studies and Planning, UCSD  <b>Murtaza Baxamusa</b> Director, Research and Policy, Center on Policy Initiatives, San Diego

<b>3. Environment</b>	3.1. Green Infrastructure for Sustainable Development	3.1.1. River and watershed-based environmental planning	<b>Adam Krohn*</b> Preston Lam Kevin Lau Josh Menvielle	<b>John Robertus*</b> Executive Officer, San Diego Regional Water Quality Control Board
	3.2. Sustainability Science & Greening the University	3.1.2. Alternative technologies and green innovation in theory and practice	Jennifer Arizala Verlin Frazier Jr. <b>Erin Hicks*</b>	<b>Ned Daugherty*</b> Landscape Architect; Principal, In-site Design LLC
		3.2.1. Greening of UCSD	Everlynne Lleva Elyse Sanchez <b>Rahul Sharma*</b>	<b>John Dilliot*</b> Energy/Utilities Manager, Facilities Management, UCSD
<b>4. Housing</b>	4.1. Affordable Housing	4.1.1. Housing policy, market dynamics and regulations	Shewit Abraham Leigh Grossman Victor Lim <b>Christine Tung*</b>	<b>Nico Calavita*</b> Professor, Graduate Program in City Planning, San Diego State University (SDSU) <b>Ken Grimes</b> Executive Director, Walk San Diego
		4.1.2. Affordable housing development strategies	Jason R Goltiao <b>Kendra McBean*</b> Nohelia Patel Claire Tuttle	<b>Nico Calavita*</b> Professor, Graduate Program in City Planning, San Diego State University <b>Ken Grimes</b> Executive Director, Walk San Diego
<b>5. Infrastructure and Public Facilities</b>	5.1. Sustainable Energy and Environmental Monitoring	5.1.1. Greening of energy production and policy	Won Bae <b>Jake King*</b> John McMillan	<b>Richard Caputo*</b> Board of Directors, San Diego Renewable Energy Society
	5.2. Education and Equity	5.2.1. Education policy, culture and social justice	Emily Lipoma Kevin Mann Rowena Ramos <b>Yolanda Richards*</b>	<b>Cecil Lytle*</b> Associate Director, Center for Research on Educational Equity, Assessment, and Teaching Excellence (CREATE), UCSD
<b>6. Public Health and Safety</b>	6.1. Quality of Life and Community-based Programs	6.1.1. Improving public health and quality of life	Allison Goldstein Jessica Park Jonathan Perez <b>Tina Saladino*</b> Ariel Willingham	<b>David Cleveland*</b> President, TELESIS Corporation (a non-profit organization that enhances the performance of public service agencies and community organizations through optimal use of advanced technologies and tools). <b>Beth Jarosz</b> Associate Research Analyst, San Diego Association of Governments (SANDAG)

<b>7. Transportation Planning</b>	7.1. Planning and Funding Transit Projects	7.1.1. Transportation technologies, policies and practices	Andrew Chang Ian Clark Jason Runyan <b>Becky Trayler*</b>	<b>Carolyn Chase*</b> Founder and CEO, San Diego EarthWorks (the non-profit corporation that produces the annual EarthFair in Balboa Park)  <b>Connery Cepeda</b> Transportation Planner, Caltrans District 11, Planning Division, San Diego
	7.2. Promoting Bicycling and Walking	7.2.1. Valuing bicycling and walking as an alternative means of transportation	Cory Anderson Carol Feucht Sara Ortiz <b>Brady Ruebusch*</b>	<b>Chris Kluth*</b> Associate Lane Use/Transportation Planner, San Diego Association of Governments (SANDAG)
<b>8. Tribal Policy and Planning</b>	8.1. Tribal Participation in Regional Planning Processes	8.1.1. Tribes and new institutional means of participation in regional planning and development	<b>Maria Sotero*</b> Greg Greenberg Cecilia LaVariega	<b>Jane Clough-Riquelme*</b> Tribal Liaison, San Diego Association of Governments (SANDAG)  <b>Hiram Sarabia</b> Research Scientist, Superfund Basic Research Program, UCSD; Regional Workbench Consortium (RWBC)
<b>9. Urban and Regional Planning</b>	9.1. Climate change and natural disasters	9.1.1. Wildland-urban interface, climate change policy and planning	Emily Barr Belinda Riva <b>Dana Van Galder*</b>	<b>Hiram Sarabia*</b> Research Scientist, Superfund Basic Research Program, UCSD; Regional Workbench Consortium (RWBC)
<b>10. US-Mexico Border Planning</b>	10.1. Planning for Sustainable Human Settlements	10.1.1. Integrated approaches to Poverty and Sustainability	<b>Cory Keen*</b> Kristy McCarthy Polonia Majas	<b>Oscar Romo*</b> Coastal Training Program Coordinator, National Oceanic and Atmospheric Administration, Tijuana River National Estuarine Research Reserve  <b>Hiram Sarabia</b> Research Scientist, Superfund Basic Research Program, UCSD; Regional Workbench Consortium (RWBC)

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\* designates Student Leaders and lead Mentors.

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