

# American University Faculty Sustainability Research

Sustainability research focuses on a key principle of sustainability (such as social equity or environmental stewardship); addresses a sustainability challenge (such as climate change or poverty); or furthers our understanding of the interconnectedness of societal and environmental challenges. Sustainability research leads toward solutions that support economic prosperity, social wellbeing, and ecological health.

This guidance was developed by a committee of three faculty members, comprised of: Kathleen Getz, Senior Associate Dean for Academic Affairs, Kogod School of Business; Dr. Sikina Jinnah, Assistant Professor, School of International Service; Stephen MacAvoy, Assistant Professor, Department of Environmental Science.

A survey conducted by the Office of Sustainability in January, 2011 found that 101 members of American University's faculty, representing all six academic schools, are carrying out sustainability research:

College of Arts and Sciences		
Last Name	First Name	Research Topic:
Berman	Robert	Title not yet reported
Berry	Evan	Concurrent, related research projects on food ethics and on the ethics of climate change
Bono	James	NextGen Air Traffic Management
Bright	Anita	Title not yet reported
Carlini	David	Genetic analysis and effective population size of <i>Antrolana lira</i> , a federally threatened species
Casey	Stephen	Theoretical Quantitative Analysis of Sustainability
Cheh	Albert	Biomass Digestion for Cellulosic Ethanol Biofuel
Child	Jack	<ul style="list-style-type: none"> <li>Interdisciplinarity of Latin American history, art, literature</li> <li>Social and political issues in the Hispanic community</li> </ul>
Ernst	Jennifer	Middle School Teacher Health as a Contributor to Academic Success in Schools
Femenias	Blenda	<ul style="list-style-type: none"> <li>Expressive culture, cultural heritage, and cultural institutions</li> <li>Gender, race, and trans-regional migration including issues of urban poverty</li> </ul>
Floro	Maria	Care of People and Care of Environment: What Mainstream Economics Has Neglected
Fox	Douglas	<ul style="list-style-type: none"> <li>Development of Sustainable Fire Resistant Polymer Composites</li> <li>Physicochemical Properties of Alternative Green Solvents</li> </ul>
Gray	Mary	Quantitative Assessment of Sustainability Projects
Gunter	Bernhard	<ul style="list-style-type: none"> <li>The Impact of Development on CO<sub>2</sub> Emissions: A Case Study for Bangladesh until 2050</li> </ul>

		<ul style="list-style-type: none"> <li>Achieving the Millennium Development Goals (MDGs) and Ensuring Debt Sustainability - <i>Forthcoming in 3rd World Quarterly - Special Issue on the Millennium Development Goals</i></li> </ul>
Hazimeh	Shaghaf	Composition and Sustainability: Teaching for a Threatened Generation
Hodges	Alex	Open access to scholarly communication and library collections fosters social equity; Electronic access to library collections reduces consumption of paper.
Joharji	Ghazi	Title not yet reported
Johnson	Catherine	Students research issues surrounding alternative sources of energy
Kabore	Francois	Intellectual Property Rights, Innovation and Technology Transfer
Klein	Ira	Title not yet reported
Koenig	Dolores	Social inequality and poverty impacts of involuntary resettlement due to development projects
Leap	William	Social Inequality/Social Justice - Interrogations of Conditions of Privilege
MacAvoy	Stephen	Pollutant and nutrient controls on water chemical composition in the Anacostia River, Washington DC
Marin-Dale	Margarita	Social Equity
Mehta	Nimai	Preference Biases in Public Sanitation
Norris	Deborah	Title not yet reported
Park	Jin	Sustaining Sustainability: A View from Buddhist Ethics
Pascale	Celine-Marie	Culture/Knowledge/Power
Santiago-Blay	Jorge	Editor and chief of <i>Terrestrial Anthropol Reviews</i> - <a href="http://www.brill.nl/authorsinstructions/tar.pdf">http://www.brill.nl/authorsinstructions/tar.pdf</a>
Tate	Stacie	Urban Education and Literacy
Taylor	Sue	Title not yet reported
Vine	David	Investigating US Military Bases Abroad
Whitney	Peter	Trade, environment, energy
Winters	Paul	Evaluating the impact of development projects on poverty and the environment
Xiao	Chenyang	<ul style="list-style-type: none"> <li>Environmental beliefs, values, and attitudes, and environmentally friendly behavior</li> <li>Gender difference in environmentally friendly behavior in China</li> <li>Gender difference in perceptions of environmental issues</li> <li>Comparing perceptions of climate change in USA and China</li> </ul>
Yates	Brian	Gender-sensitive treatment for substance abuse, and on the provision of mental health and other human services in a manner that balances the value of resources consumed and resources produced

Yesuf	Mahmud	<ul style="list-style-type: none"> <li>• Climate change adaptation in low income countries</li> <li>• Sustainable land management in low income countries</li> <li>• Crop biodiversity and agricultural production in low income countries</li> </ul>
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## Kogod School of Business

Last Name	First Name	Research Topic:
Buhrau	Denise	Title not yet reported
Chinloy	Peter	Research and teaching following guidelines for the USGBC
Duru	Augustine	Corporate Governance in Pollution
Edgell	Robert	<ul style="list-style-type: none"> <li>• Social Innovation</li> <li>• Youth Job Innovation in Emerging Markets</li> <li>• Predicting Harm to Firm-External Constituents</li> </ul>
Grier	Sonya	Environmental Mindfulness
Holmberg	Stevan	Emerging Green-Technology Entrepreneurs: Entrepreneurial Pathways to Growth in the Plug-In Electric/Hybrid Vehicle Space
Martin	Gerald	Governmental policy
Oetzel	Jennifer	<ul style="list-style-type: none"> <li>• Economic development</li> <li>• Reducing violent conflict</li> </ul>
Pew	Ethan	Behavioral, demographic, and household variables that underlie energy use and energy savings opportunities
Westermann-Behaylo	Michelle	Title not yet reported

## School of Communication

Last Name	First Name	Research Topic:
Aufderheide	Patricia	Copyright/fair use work, which promotes the ability of culture to grow and develop, building upon the culture of the past and present
Cannon-Brown	Sandra	Title not yet reported
Fahy	Declan	Environmental journalism, which has a focus on the scientific, political, cultural and economic dimensions of climate change and energy policy
Kim	Kiho	Coral reef conservation
Menke-Fish	Sarah	<ul style="list-style-type: none"> <li>• Documentaries produced with my Cross Cultural Film and Video production class</li> <li>• The “Discover the World of Communication” Program</li> </ul>
Palmer	Christopher	IMAX and other interactive multimedia projects on climate change, biodiversity, and other related environmental issues to change public policy and personal behavior.

# School of International Service

Last Name	First Name	Research Topic:
Bratman	Eve	<ul style="list-style-type: none"> <li>Greening commodities in the Brazilian Amazon, with an emphasis on cattle</li> <li>Urban sustainability in the United States</li> </ul>
Broad	Robin	Local Dreams: Finding Economic, Social, and Environmental Rootedness in the Age of Economic, Social, and Environmental Vulnerability
Goodman	Louis	The Use of Genetic Assets in International Diplomacy: The Case of the Korean/Japanese Cherry Trees
Goodwin	Katherine	Repaving the Way: Building Alternatives to Auto-mobility
Hamilton	Mark	<ul style="list-style-type: none"> <li>Youth bulge issues (demographic sustainability)</li> <li>Mechanisms of violent and non-violent youth mobilization (economic and political sustainability &amp; peace-building)</li> </ul>
Hanna	Loubna	Youth and Development in Middle East and Northern Africa
Heckel	Heather	International children's rights with a focus upon educational rights, child soldiers, orphans and development needs of children
Jackson	Patrick	Super Highways and Subjectivity
Jinnah	Sikina	Secretariat Governance in Global Environmental Politics
Kiechel	Victoria	<ul style="list-style-type: none"> <li>Models of Political Governance and Discourse which Foster Sustainability (including social equity)</li> <li>The Relationship between Theory and Practice in Implementing Sustainability: Case Studies</li> <li>Measuring and Tracking: Meaningful Metrics in Green Performance Standards</li> <li>Closed Loop Systems: The Paradigm of Waste Equals Food in Resource Renewal</li> <li>Beyond Simple Payback: Quantifying other Considerations in Cost Benefit Analyses</li> </ul>
Leki	Ray	Title not yet reported
Maisch	Christian	The Pioneering Role of the Inter-American System in Environmental Protection: The 1940 Convention on Nature Protection and Wildlife Preservation in the Western Hemisphere
Mansingh	Surjit	Title not yet reported
Nicholson	Simon	<ul style="list-style-type: none"> <li>Global food politics</li> <li>International environmental and energy politics</li> </ul>
Pastor	Robert	Title not yet reported
Redvers-Lee	Peter	Sustainable Economic and Community Development in Afro-Ecuadorian Communities
Rosenthal	Irving	Sustainability of US foreign aid programs
Shapiro	Judith	China's sustainable development prospects

Shosky	John	Title not yet reported
Tuomi	Krista	Project on Eco Labeling
Ukata	Patrick	Issues of poverty; environmental sustainability
Venturelli	Shalini	<ul style="list-style-type: none"> <li>• Global Public Media Project</li> <li>• Global Knowledge Economy Project</li> </ul>
Wapner	Paul	Environmental Thought and Practice
Wien	Barbara	Carry capacities of the Earth, teaching the “Earth Charter”
Wigfall-Williams	Wanda	Title not yet reported
Zhao	Quansheng	Title not yet reported

## School of Public Affairs

Last Name	First Name	Research Topic:
Baehler	Karen	Social sustainability
Durant	Robert	Environmental Governance Reconsidered: Challenges, Choices, and Opportunities (MIT Press 2004)
Fiorino	Daniel	<ul style="list-style-type: none"> <li>• An Analysis of the Obama Executive Order on Federal Sustainability</li> <li>• Explaining Variations in National Environmental Performance</li> </ul>
Hunt	Gregory	Drug abuse, treatment, and reduction of recidivism
Kahan	Mark	Social Fairness vs. Economic Efficiency in the Development and Execution of Regulatory Policy
Kaplan	Lester	Title not yet reported
Mitchell	Patricia	The impact of poverty and lack of resources as factors contributing to child abuse & neglect
Shiffman	Jeremy	Equity in global health
Singerman	Diane	Housing Governance and Contestation in Cairo, Egypt
Stazyk	Edmund	Sustainability and intergenerational social equity, including a forthcoming co-authored book project examining the links between sustainability, social equity, and issues of intergenerational fairness
Viano	Emilio	Title not yet reported
Walti	Sonja	Participatory environmental management, comparative environmental policy
Weekes	Margaret	Transformation of just war theory
Weiner	Ronald	Title not yet reported

# Washington College of Law

Last Name	First Name	Research Topic:
Cannon	Yael	Equality in education, equality for people with disabilities, social justice for children living in poverty
Farley	Christine	Green trademarks
Hughes	Heather	Title not yet reported
Hunter	David	Environmental and social standards for sustainable development at international financial institutions
Markowitz	Kenneth	Assuring compliance with laws that lead to sustainable development
Orellana Cruz	Marcos	Title not yet reported
Wallace	Perry	Title not yet reported