

Sustainability Research Inventory (2015 - 2017 Spring)

Inventory of all undergraduate faculty for whom research is considered in promotion and tenure
 Full-Time Faculty engaged sustainability-related research* (please see last page for more details)

Faculty engaged sustainability-related research
 Possible followup

Last name	First name	Title	Academic Unit	Research Interests	Involved in Sustainability Research	Citation
Afrasiabi	Zahra	Associate Professor of Chemistry	Science and Mathematics	Application of nanomaterials in Environmental Science, Animal science, Agriculture, and Food Science	Y	DIETARY SILVER NANOPARTICLES REDUCE FITNESS IN A BENEFICIAL, BUT NOT PEST, INSECT SPECIES
Allinson	Robert	Professor of Philosophy	HUM	Original philosophy Eastern and Western Integrative Philosophy Metaphysics, Epistemology, Ethics	N	
Barter	Shane	Assistant Professor of Comparative Politics Associate Director of the Pacific Basin Research Center	IS	Southeast Asian politics Civilians in War Autonomous areas and conflict resolution	Y	Between a Rock & a Hard Place: Second-Order Minorities in the Aceh Conflict," Asian Ethnicity 16:2 (2015) Second-Order Minorities in Asian Secessionist Conflicts," Asian Ethnicity 16:2 (2015) Strife of the Soil? Unsettling Transmigrant Conflicts in Indonesia", Journal of Southeast Asian Studies 46:1 (2015) (with Isabelle Côté); 60-85" Area Studies, Asian Studies, and the Pacific Basin," Geographical Review 105:1 (2015); 105-119
Burns	Peter	Professor of Political Science	IS	Urban Governance Public Policy Policing	Y	Reforming New Orleans: The Contentious Politics of Change in the Big Easy with Matthew O. Thomas (Cornell University Press, 2015).
Busenberg	George	Associate Professor of Environmental Management and Policy	ENVST	Environmental Policy	Y	Busenberg, George J. 2016. "Agenda Setting and Policy Reform." In American Governance, edited by Stephen Schechter, Thomas S. Vontz, Thomas A. Birkland, Mark A. Graber, and John J. Patrick. Vol. 1, 31-32. Farmington Hills, MI: Macmillan Reference USA.
Caldwell	Ryan	Associate Professor of Sociology	SBS	Social Theory (Classical, Contemporary, Postmodern, Feminist, Cultural) Cultural Studies, Power relations and social inequality Women's Studies- sex, gender, sexuality, feminism, human rights	N	
Calef	Monika	Associate Professor of Physical Geography Director of Environmental Studies	ENVST	Climate change impacts on vegetation structure and composition Land use change impacts on vegetation patterns on the landscape Fire impacts on vegetation dynamics	Y	Calef, M.P., A. Varvak, A.D. McGuire, F.S. Chapin III, and K.B. Reinhold (2015): Recent changes in annual area burned in Interior Alaska: The impact of fire management. Earth Interactions 19:1-17. DOI:10.1175/EI-D-14-0025.1.
Chang	Esther S	Associate Professor of Psychology	SBS	Transnational families Life Goals Parenting	Y	Chang, E.S. (2016). Kirogi Women's Psychological Well-Being: The Relative Contributions of Marital Quality, Mother-Child Relationship Quality, and Youth's Educational Adjustment. Journal of Family Issues. doi: 10.1177/0192513X16632265 Chang, E.S. & Lee, B. (2016). Parenting goals and perceived shared and non-shared agency among kirogi mothers of a youth. International Journal of Adolescence and Youth. doi: 10.1080/02673843.2016.1245149
Chen	Hong Yi	Professor of Economics	SBS	Development Economics Institutional Economics Pacific Asian and China's Economic Development	N	
Ciccotelli	Darrin	Associate Professor of Rhetoric and Composition	Writing	Affect Theory American Literature (post-1865) Comics and Graphic Narratives Contemporary Fiction Creative Writing Creative Writing Pedagogy David Foster Wallace the Literature of 9/11 Lyric Essay/Creative Nonfiction Poetry in Translation Postprocess Theory	N	
Crummett	Lisa	Assistant Professor of Biology	Science and Mathematics	Understanding the ecological and	Y	Crummett LT, Puxty, RJ, Weihe C, Marston MF, Martiny, JBH. The genomic content and context of auxiliary metabolic genes in marine cyanomyoviruses. 2016. Virology 499: 219-229.

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England	Sarah	Associate Dean of Students Associate Professor of Anthropology Title IX and Section 504 Deputy Coordinator for Students	SBS	Gender and Sexuality in Central America Violence against Women in Central America Media Representations of Violence against Women in Guatemala Detention and Deportation Regime Central American Immigration to the US and deportation	N	
Feasel	Edward M.	Vice President for Academic Affairs Chief Academic Officer Dean of Faculty Professor of Economics	SBS	Economic outcomes and societal values Regional economic issues - Orange County Economy Economic growth; effects of monetary and fiscal policy	N	
Galles	Arie Galles	Professor of Painting/Drawing	Creative Arts	"Drawing with Ashes," based upon my journal entries, and other documentation, through the almost 10 years it took me to complete the "Fourteen Stations/Hey Yud Dalet" suite of drawings.	N	
Gelikman	Oleg	Associate Professor of Comparative Literature	HUM	Modernism Political Ecology Aesthetic Theory Documentary Poetics History of Photography History of Criticism (Russian Formalism and Soviet Semiotics) Political Ecology	N	
Golden	Michael D	Professor of Music Composition and Theory Director of the Creative Arts Program	Creative Arts	Music Composition and Theory (incl. Jazz and Computer applications) World Music Music and: Philosophy, Cognition, Culture, Religion	N	
Hamersley	Robert	Associate Professor of Microbiology	ENVST	Aquatic biogeochemistry and environmental microbiology Denitrification Links between the carbon and nitrogen cycles Methanogenesis	Y	Hamersley MR, Sohm JA, Burns JA and DG Capone. 2015. "Nitrogen fixation associated with the decomposition of the giant kelp <i>Macrocystis pyrifera</i> ." <i>Aquatic Botany</i> , 125:57-63.
Hwang	Dongyoun	Professor of Asian Studies	IS	Radicalism and Nationalism in Twentieth Century Eastern Asia The Guomindang Leftists in the 1920s Wartime Collaboration in China during the Pacific War	N	
Ishiyama	Osamu	Associate Professor of Japanese Language and Culture Director of the Language and Culture Program	Language and Culture	particularly deixis and language change Japanese Linguistics Linguistic characteristics of L2 Japanese	N	
Kehlen	John Pavel	Lecturer of Asian Literature	HUM	Premodern Chinese and Japanese Poetry Comparative Poetics and Drama Performance Studies (Nōgaku, Kunqu, Suzuki, Boal and Grotowski) Theory and Practice of Translation	N	
Liu	Junyi	Assistant Professor of Economics	SBS	Public Health Taxation Economic Growth/Development	N	

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Liu	Xiaoxing	Associate Professor of Chinese Language & Culture	Language and Culture	intercultural competence through study abroad Culture, politics and social change Health care among the Yi in China	N	
Lowe	Edward	Associate Professor of Anthropology	SBS	I am a psychological anthropologist specializing in how families and individuals cope with economic insecurity and during times of rapid social, cultural, and economic change. I have conducted ethnographic research in the islands of Chuuk, Micronesia for over 20 years and also written extensively about urban poverty and family life in the United States. I am currently the editor of Ethos: The Journal of the American Anthropological Association.	Y	Lowe, E. D. (2016). Methods to Inform Public Problems: Toward and Ecocultural Framing of Poverty. In M. C. Hay (ed.), <i>Methods that Matter: Integrating Mixed Methods for More Effective Social Science Research</i> . Chicago: University of Chicago Press.
MacLeod	Lisa	Associate Professor of International Studies Director of International Studies	IS	The United Nations Security Council Politics United Nations Peace Operations Human Rights Norms and International Relations Theory	Y	MacLeod, Lisa. (Forthcoming) "Boundary Disputes in the Pacific Basin" in <i>Introduction to the Pacific Basin</i> (Routledge). MacLeod, Lisa A. Hall. (October 9, 2015) "China, the Security Council and the Protection of Civilians," Paper presented to the 2015 ISAC-ISSS Conference, October 8-10, 2015, Springfield, MA. MacLeod, Lisa. (Forthcoming 2017) "China's Security Council Engagement: The Impact of Normative and Causal Beliefs," <i>Global Governance: A Review of Multilateralism and International Organizations</i> . MacLeod, Lisa A. Hall. (October 9, 2015) "China, the Security Council and the Protection of Civilians," Paper presented to the 2015 ISAC-ISSS Conference, October 8-10, 2015, Springfield, MA.
Matsumoto	Hiroshi	Associate Professor of Japanese Language and Culture	Language and Culture	Student's perceptions of teacher talk in Japanese (as a second) language classes Analyses of (spoken and written) learner language among American university students studying Japanese (as a second) language <i>Japanese (as a second) language</i>	N	
Mazeroll	Anthony Inder Mazeroll	Professor of Biology	ENVST	Behavioral Ecology of Fishes Impacts of Human Activities on the Environment Population Genetis of Amazonian Fishes	Y	Currently conducting research on the population genetics of fishes from the Colombian Amazon
Mazumder	Diya	Associate Professor of Economics	SBS	Environmental and Natural Resource Economics Public Economics Development Economics International Trade	N	
Merod	Jim	Professor of American Literature	HUM	Melville and Nietzsche Jazz Paradigms, Narrative Embodiments Benny Golson's autobiography	N	
Merzell	Jonathan Lee	Professor of Mathematics	Science and Mathematics	Valuation Theory, Ordered Fields and Quadratic Forms Ducci Sequences and Related Recursions	N	
Peters	Deike	Assistant Professor of Environmental Planning and Practice	ENVST	Environmentally responsible and socially equitable urban planning and policy Land Use Sustainable Transportation Green Urbanism and environmental design Comparative urbanization, global cities Gender dimensions of transportation and mobility Planning theory and pedagogy	Y	Peters, D. (forthcoming 2016). "Density Wars in Silicon Beach: The Struggle to Mix New Spaces for Toil, Stay and Play in Santa Monica, CA." In: Colomb, C. & Novy, J. (Eds.) <i>Protest and Resistance in the Tourist City</i> . London: Routledge Peters, D. (2015) "Urban Megaprojects and Reversibility: The Re-Railing of Los Angeles." In: Grabher, G. and Thiel, J. (Eds.) <i>Self-Induced Shocks: Megaprojects and Urban Development. Perspectives in Metropolitan Research</i> , Vol. 1. Hamburg: Jovis. Loukaitou-Sideris, A., Peters, D. and Wei, W. (2015) <i>Promoting Intermodal Connectivity at California's High-Speed Rail Stations</i> . Mineta Transportation Institute Report MTI 12-47. San Jose: San Jose State University

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Quezada	Veronica	Assistant Professor of Spanish Language and Culture	Language and Culture	Mexican Literature Chican/U.S. Latin Literatures Borderlands Theory Ethnic Studies Mass Culture	N	
Rallin	Aneil	Associate Professor of Rhetoric and Composition	Writing	Activist Rhetorics and Critical Pedagogy Transnational Cultural Studies and Queer/Postcolonial/Feminist Theory "Experimental" Writing, Film, and Video	N	
Rao	Nalini N.	Associate Professor of World Art	HUM	Visual Culture, Ethnography, Art and Archaeology Modern Art in India Buddhist and Hindu Traditions – Relics and the Body Hinayana Mahayana and Vajrayana Buddhism The Devaraja Tradition in Cambodia The Monastery and Educational Institution in India.	N	
Read	Ian Olivo	Associate Professor of Latin American Studies	IS	History of Brazil History of public health Slavery and race in the Americas	N	
Spady	James	Associate Professor of American History	HUM	Colonialism and Early America Theory and Historiography Pedagogy and the Cultural Construction of Knowledge	N	
Takaku	Seiji	Professor of Psychology Institutional Research and Assessment Coordinator Director of Social and Behavioral Sciences Concentration	SBS	Apology and forgiveness Cross-cultural studies on interpersonal & intergroup conflict resolutions Motivation theories in psychology and Weiner's theory of attribution in particular	N	
Thomas	Gail	Professor of Sociology	SBS	Assessing Quality Educational Alternatives to Traditional Public Schools Race and Gender Differences in Education and Employment in Higher Education Global Social Inequality	Y	Alternative Theories, Pedagogy and Education for Fostering Creativity in a Diverse Global World
Varvak	Anna	Associate Professor of Mathematics	Science and Mathematics	Math education Applied statistics	Y	GE Thomas - Open Journal of Social Sciences, 2016
Vu	Phat	Associate Professor of Physics Institutional Research and Assessment Coordinator	Science and Mathematics	Observer mechanics, Markov chains, and their relationship to quantum formalism; neuroscience, cognition, and the relationship between the sciences and humanities	N	
Weiner	Michael	Professor of East Asian History & International Studies	IS	The history of medicine in Japan with particular reference to the social history of leprosy and leprosy control A co-authored article that compares disease control in modernizing states (Chile and Japan), currently in progress Race and Ethnicity in Asia	Y	An Introduction to the Pacific Basin (Co-editor), Forthcoming 2017, Routledge
Williams	James	Professor of Rhetoric and Linguistics Director of the Writing Program	Writing	Classical Rhetoric Writing Pedagogy Assessment Cognition Psycholinguistics Syntax	N	

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Wilson	Kristi	Associate Professor of Rhetoric and Composition	Writing	Studies, Postcolonial Theory, Film Theory, Philosophy, Orientalism) Classics (Rhetoric, Old Comedy, Euripedean Tragedy, Roman Satire, Plato, 2nd Sophistic period) Gender Studies	N	

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 Proportion of faculty involved in s 36%
 # Departments 3
 Proportion of departments 75%

According to the STARS Technical Manual:

Sustainability research is research that leads toward solutions that simultaneously support social wellbeing, economic prosperity, and ecological health. It includes research and scholarship that:

1. Explicitly addresses sustainability and/or furthers our understanding of the interconnectedness of social, economic and environmental issues;
2. Contributes directly toward solving one or more major sustainability challenge (e.g. contributes toward achieving principles outlined in the Earth Charter); and/or
3. Engages community members with the aim of combining knowledge and action to achieve positive social, economic and environmental outcomes (e.g. participatory and community-based research and engaged scholarship).

Principles outlined in the Earth Charter:

I. RESPECT AND CARE FOR THE COMMUNITY OF LIFE

1. Respect Earth and life in all its diversity.
 - a. Recognize that all beings are interdependent and every form of life has value regardless of its worth to human beings.
 - b. Affirm faith in the inherent dignity of all human beings and in the intellectual, artistic, ethical, and spiritual potential of humanity.
2. Care for the community of life with understanding, compassion, and love.
 - a. Accept that with the right to own, manage, and use natural resources comes the duty to prevent environmental harm and to protect the rights of people.
 - b. Affirm that with increased freedom, knowledge, and power comes increased responsibility to promote the common good.
3. Build democratic societies that are just, participatory, sustainable, and peaceful.
 - a. Ensure that communities at all levels guarantee human rights and fundamental freedoms and provide everyone an opportunity to realize his or her full potential.
 - b. Promote social and economic justice, enabling all to achieve a secure and meaningful livelihood that is ecologically responsible.
4. Secure Earth's bounty and beauty for present and future generations.
 - a. Recognize that the freedom of action of each generation is qualified by the needs of future generations.

b. Transmit to future generations values, traditions, and institutions that support the long-term flourishing of Earth's human and ecological communities. In order to fulfill these four broad commitments, it is necessary to:

II. ECOLOGICAL INTEGRITY

5. Protect and restore the integrity of Earth's ecological systems, with special concern for biological diversity and the natural processes that sustain life.

a. Adopt at all levels sustainable development plans and regulations that make environmental conservation and rehabilitation integral to all development initiatives.

b. Establish and safeguard viable nature and biosphere reserves, including wild lands and marine areas, to protect Earth's life support systems, maintain biodiversity, and preserve our natural heritage.

c. Promote the recovery of endangered species and ecosystems.

d. Control and eradicate non-native or genetically modified organisms harmful to native species and the environment, and prevent introduction of such harmful organisms.

e. Manage the use of renewable resources such as water, soil, forest products, and marine life in ways that do not exceed rates of regeneration and that protect the health of ecosystems.

f. Manage the extraction and use of non-renewable resources such as minerals and fossil fuels in ways that minimize depletion and cause no serious environmental damage.

6. Prevent harm as the best method of environmental protection and, when knowledge is limited, apply a precautionary approach.

a. Take action to avoid the possibility of serious or irreversible environmental harm even when scientific knowledge is incomplete or inconclusive.

b. Place the burden of proof on those who argue that a proposed activity will not cause significant harm, and make the responsible parties liable for environmental harm.

c. Ensure that decision making addresses the cumulative, long-term, indirect, long distance, and global consequences of human activities.

d. Prevent pollution of any part of the environment and allow no build-up of radioactive, toxic, or other hazardous substances.

e. Avoid military activities damaging to the environment.

7. Adopt patterns of production, consumption, and reproduction that safeguard Earth's regenerative capacities, human rights, and community well-being.

a. Reduce, reuse, and recycle the materials used in production and consumption systems, and ensure that residual waste can be assimilated by ecological systems.

b. Act with restraint and efficiency when using energy, and rely increasingly on renewable energy sources such as solar and wind.

c. Promote the development, adoption, and equitable transfer of environmentally sound technologies.

d. Internalize the full environmental and social costs of goods and services in the selling price, and enable consumers to identify products that meet the highest social and environmental standards.

e. Ensure universal access to health care that fosters reproductive health and responsible reproduction.

f. Adopt lifestyles that emphasize the quality of life and material sufficiency in a finite world.

8. Advance the study of ecological sustainability and promote the open exchange and wide application of the knowledge acquired.

a. Support international scientific and technical cooperation on sustainability, with special attention to the needs of developing nations.

b. Recognize and preserve the traditional knowledge and spiritual wisdom in all cultures that contribute to environmental protection and human well-being.

c. Ensure that information of vital importance to human health and environmental protection, including genetic information, remains available in the public domain.

III. SOCIAL AND ECONOMIC JUSTICE

9. Eradicate poverty as an ethical, social, and environmental imperative.

a. Guarantee the right to potable water, clean air, food security, uncontaminated soil, shelter, and safe sanitation, allocating the national and international resources required.

b. Empower every human being with the education and resources to secure a sustainable livelihood, and provide social security and safety nets for those who are unable to support themselves.

c. Recognize the ignored, protect the vulnerable, serve those who suffer, and enable them to develop their capacities and to pursue their aspirations.

10. Ensure that economic activities and institutions at all levels promote human development in an equitable and sustainable manner.

- a. Promote the equitable distribution of wealth within nations and among nations.
- b. Enhance the intellectual, financial, technical, and social resources of developing nations, and relieve them of onerous international debt.
- c. Ensure that all trade supports sustainable resource use, environmental protection, and progressive labor standards.
- d. Require multinational corporations and international financial organizations to act transparently in the public good, and hold them accountable for the consequences of their activities.

11. Affirm gender equality and equity as prerequisites to sustainable development and ensure universal access to education, health care, and economic opportunity.

- a. Secure the human rights of women and girls and end all violence against them.
- b. Promote the active participation of women in all aspects of economic, political, civil, social, and cultural life as full and equal partners, decision makers, leaders, and beneficiaries.
- c. Strengthen families and ensure the safety and loving nurture of all family members.

12. Uphold the right of all, without discrimination, to a natural and social environment supportive of human dignity, bodily health, and spiritual well-being, with special attention to the rights of indigenous peoples and minorities.

- a. Eliminate discrimination in all its forms, such as that based on race, color, sex, sexual orientation, religion, language, and national, ethnic or social origin.
- b. Affirm the right of indigenous peoples to their spirituality, knowledge, lands and resources and to their related practice of sustainable livelihoods.
- c. Honor and support the young people of our communities, enabling them to fulfill their essential role in creating sustainable societies.
- d. Protect and restore outstanding places of cultural and spiritual significance.

IV. DEMOCRACY, NONVIOLENCE, AND PEACE

13. Strengthen democratic institutions at all levels, and provide transparency and accountability in governance, inclusive participation in decision making, and access to justice.

- a. Uphold the right of everyone to receive clear and timely information on environmental matters and all development plans and activities which are likely to affect them or in which they have an interest.
- b. Support local, regional and global civil society, and promote the meaningful participation of all interested individuals and organizations in decision making.
- c. Protect the rights to freedom of opinion, expression, peaceful assembly, association, and dissent.
- d. Institute effective and efficient access to administrative and independent judicial procedures, including remedies and redress for environmental harm and the threat of such harm.
- e. Eliminate corruption in all public and private institutions.
- f. Strengthen local communities, enabling them to care for their environments, and assign environmental responsibilities to the levels of government where they can be carried out most effectively.

14. Integrate into formal education and life-long learning the knowledge, values, and skills needed for a sustainable way of life.

- a. Provide all, especially children and youth, with educational opportunities that empower them to contribute actively to sustainable development.
- b. Promote the contribution of the arts and humanities as well as the sciences in sustainability education.
- c. Enhance the role of the mass media in raising awareness of ecological and social challenges.
- d. Recognize the importance of moral and spiritual education for sustainable living.

15. Treat all living beings with respect and consideration.

- a. Prevent cruelty to animals kept in human societies and protect them from suffering.
- b. Protect wild animals from methods of hunting, trapping, and fishing that cause extreme, prolonged, or avoidable suffering.
- c. Avoid or eliminate to the full extent possible the taking or destruction of non-targeted species.

16. Promote a culture of tolerance, nonviolence, and peace.

- a. Encourage and support mutual understanding, solidarity, and cooperation among all peoples and within and among nations.
- b. Implement comprehensive strategies to prevent violent conflict and use collaborative problem solving to manage and resolve environmental conflicts and other disputes.
- c. Demilitarize national security systems to the level of a non-provocative defense posture, and convert military resources to peaceful purposes, including ecological restoration.
- d. Eliminate nuclear, biological, and toxic weapons and other weapons of mass destruction.
- e. Ensure that the use of orbital and outer space supports environmental protection and peace.
- f. Recognize that peace is the wholeness created by right relationships with oneself, other persons, other cultures, other life, Earth, and the larger whole of which all are a part.