

Stanford



Lisa Curran

Roger and Cynthia Lang Professor of Environmental Anthropology and Senior Fellow at the Woods Institute for the Environment

Bio

ACADEMIC APPOINTMENTS

- Professor, Anthropology
- Senior Fellow, Stanford Woods Institute for the Environment

PROGRAM AFFILIATIONS

- Center for East Asian Studies
- Center for Latin American Studies

PROFESSIONAL EDUCATION

- PhD, Princeton University , Ecology & Evolutionary Biology (1994)
- AB, Harvard University , Anthropology (1984)

Teaching

COURSES

2019-20

- Interdisciplinary Research Proposals: Effective Presentation, Skills, and Styles: ANTHRO 308B (Spr)
- Political Ecology of Tropical Land Use: Conservation, Natural Resource Extraction, and Agribusiness: ANTHRO 166 (Win)

2018-19

- Interdisciplinary Research Proposals: Effective Presentation, Skills, and Styles: ANTHRO 308B (Spr)
- Political Ecology of Tropical Land Use: Conservation, Natural Resource Extraction, and Agribusiness: ANTHRO 166, ANTHRO 266 (Win)

Publications

PUBLICATIONS

- **Effects of understory fire management treatments on California Hazelnut, an ecocultural resource of the Karuk and Yurok Indians in the Pacific Northwest** *FOREST ECOLOGY AND MANAGEMENT*
Marks-Block, T., Lake, F. K., Curran, L. M.
2019; 450
- **Oil palm land conversion in Para, Brazil, from 2006-2014: evaluating the 2010 Brazilian Sustainable Palm Oil Production Program** *ENVIRONMENTAL RESEARCH LETTERS*
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- **FIRE-DRIVEN BIOMASS AND PEAT CARBON LOSSES AND POST-FIRE SOIL CO₂ EMISSION IN A WEST KALIMANTAN PEATLAND FOREST** *JOURNAL OF TROPICAL FOREST SCIENCE*
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- **First integrative trend analysis for a great ape species in Borneo.** *Scientific reports*
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2017; 7 (1): 4839
- **Science-based management in decline in the Southern Ocean.** *Science*
Brooks, C. M., Crowder, L. B., Curran, L. M., Dunbar, R. B., Ainley, D. G., Dodds, K. J., Gjerde, K. M., Sumaila, U. R.
2016; 354 (6309): 185-187
- **Biomass burning drives atmospheric nutrient redistribution within forested peatlands in Borneo** *ENVIRONMENTAL RESEARCH LETTERS*
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2016; 11 (8)
- **Managing water services in tropical regions: From land cover proxies to hydrologic fluxes** *AMBIO*
Ponette-Gonzalez, A. G., Brauman, K. A., Marin-Spiotta, E., Farley, K. A., Weathers, K. C., Young, K. R., Curran, L. M.
2015; 44 (5): 367-375
- **Assessing the influence of topography and canopy structure on Douglas fir throughfall with LiDAR and empirical data in the Santa Cruz mountains, USA** *ENVIRONMENTAL MONITORING AND ASSESSMENT*
GRIFFITH, K. T., Ponette-Gonzalez, A. G., Curran, L. M., Weathers, K. C.
2015; 187 (5)
- **Multiple pathways of commodity crop expansion in tropical forest landscapes** *ENVIRONMENTAL RESEARCH LETTERS*
Meyfroidt, P., Carlson, K. M., Fagan, M. E., Gutierrez-Velez, V. H., Macedo, M. N., Curran, L. M., DeFries, R. S., Dyer, G. A., Gibbs, H. K., Lambin, E. F., Morton, D. C., Robiglio, V.
2014; 9 (7)
- **Influence of watershed-climate interactions on stream temperature, sediment yield, and metabolism along a land use intensity gradient in Indonesian Borneo** *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES*
Carlson, K. M., Curran, L. M., Ponette-Gonzalez, A. G., Ratnasari, D., Ruspita, Lisnawati, N., Purwanto, Y., Brauman, K. A., Raymond, P. A.
2014; 119 (6): 1110-1128
- **Refined carbon accounting for oil palm agriculture: disentangling potential contributions of indirect emissions and smallholder farmers** *CARBON MANAGEMENT*
Carlson, K. M., Curran, L. M.
2013; 4 (4): 347-349
- **Effects of high-frequency understorey fires on woody plant regeneration in southeastern Amazonian forests** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Balch, J. K., Massad, T. J., Brando, P. M., Nepstad, D. C., Curran, L. M.
2013; 368 (1619)
- **Carbon emissions from forest conversion by Kalimantan oil palm plantations** *NATURE CLIMATE CHANGE*
Carlson, K. M., Curran, L. M., Asner, G. P., Pittman, A. M., Trigg, S. N., Adeney, J. M.
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- **Understanding the Impacts of Land-Use Policies on a Threatened Species: Is There a Future for the Bornean Orang-utan?** *PLOS ONE*
Wich, S. A., Gaveau, D., Abram, N., Ancrenaz, M., Baccini, A., Brend, S., Curran, L., Delgado, R. A., Erman, A., Fredriksson, G. M., Goossens, B., Husson, S. J., Lackman, et al
2012; 7 (11)
- **Committed carbon emissions, deforestation, and community land conversion from oil palm plantation expansion in West Kalimantan, Indonesia** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Carlson, K. M., Curran, L. M., Ratnasari, D., Pittman, A. M., Soares-Filho, B. S., Asner, G. P., Trigg, S. N., Gaveau, D. A., Lawrence, D., Rodrigues, H. O.
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- **Examining protected area effectiveness in Sumatra: importance of regulations governing unprotected lands** *CONSERVATION LETTERS*
Gaveau, D. L., Curran, L. M., Paoli, G. D., Carlson, K. M., WELLS, P., Besse-Rimba, A., Ratnasari, D., Leader-Williams, N.
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- **Policy perils of ignoring uncertainty in oil palm research** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Size, species, and fire behavior predict tree and liana mortality from experimental burns in the Brazilian Amazon** *FOREST ECOLOGY AND MANAGEMENT*
Balch, J. K., Nepstad, D. C., Curran, L. M., Brando, P. M., Portela, O., Guilherme, P., Reuning-Scherer, J. D., de Carvalho, O.
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- **Tropical land-cover change alters biogeochemical inputs to ecosystems in a Mexican montane landscape** *ECOLOGICAL APPLICATIONS*
Ponette-Gonzalez, A. G., Weathers, K. C., Curran, L. M.
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- **Water inputs across a tropical montane landscape in Veracruz, Mexico: synergistic effects of land cover, rain and fog seasonality, and interannual precipitation variability** *GLOBAL CHANGE BIOLOGY*
Ponette-Gonzalez, A. G., Weathers, K. C., Curran, L. M.
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- **REDD pilot project scenarios: are costs and benefits altered by spatial scale?** *ENVIRONMENTAL RESEARCH LETTERS*
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- **White-tailed deer (*Odocoileus virginianus*) alter herbaceous species richness in the Hiawatha National Forest, Michigan, USA** *AMERICAN MIDLAND NATURALIST*
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- **Beyond mast-fruiting events: Community asynchrony and individual dormancy dominate woody plant reproductive behavior across seven Bornean forest types** *CURRENT SCIENCE*
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- **Long-term reproductive behaviour of woody plants across seven Bornean forest types in the Gunung Palung National Park (Indonesia): supranual synchrony, temporal productivity and fruiting diversity** *ECOLOGY LETTERS*
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- **Soil nutrients limit fine litter production and tree growth in mature lowland forest of Southwestern Borneo** *ECOSYSTEMS*
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- **Long-term reproductive behavior of woody plants across seven Bornean forest types in the Gunung Palung National Park (Indonesia): supra-annual synchrony, temporal productivity and fruiting diversity** *Ecology Letters*
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- **Biodiversity and human livelihood crises in the Malay archipelago** *CONSERVATION BIOLOGY*
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- **Effects of partial throughfall exclusion on the phenology of *Coussarea racemosa* (Rubiaceae) in an east-central Amazon rainforest** *OECOLOGIA*
Brando, P., Ray, D., Nepstad, D., Cardinot, G., Curran, L. M., Oliveira, R.
2006; 150 (2): 181-189
- **Sustainability science from space: quantifying forest disturbance and land-use dynamics in the Amazon.** *Proceedings of the National Academy of Sciences of the United States of America*
Curran, L. M., Trigg, S. N.
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- **Plant recruitment bottlenecks in temperate forest fragments: seed limitation and insect herbivory** *PLANT ECOLOGY*
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- **Modelling conservation in the Amazon basin** *NATURE*
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