

KENNETH R. YOUNG

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SPECIALIZATIONS

Kenneth R. Young's research and teaching interests focus on the ecological sustainability of natural resources and of ecosystems. He is doing research on how global change affects coupled natural-human systems, including glacier recession and land use systems in the tropical Andes, environmental variability in southern Africa, and conservation programs in utilized and protected landscapes. More broadly, he aims to link biogeography to environmental conservation at local to landscape to global scales, with emphasis in the tropics.

EDUCATION

- 1990 Ph.D., Department of Geography, University of Colorado, Boulder, CO. Thomas T. Veblen, advisor. Dissertation: "*Biogeography and Ecology of a Timberline Forest in North-Central Peru*".
- 1984 M.S., Department of Botany, University of Florida, Gainesville, FL. John J. Ewel, advisor. Thesis: "*Seeds in the Soil of Successional Vegetation at Turrialba, Costa Rica*".
- 1978 B.S., Department of Ecology, Ethology, and Evolution, University of Illinois, Champaign-Urbana, IL.

POST-GRADUATE EXPERIENCE

- 2007- Professor, University of Texas at Austin.
- 2009-12 Chair, Department of Geography & the Environment, UT-Austin.
- 2007-09 Program director, Geography and Spatial Sciences, National Science Foundation
- 2002- Faculty research associate, Population Research Center, UT-Austin.
- 2000-07 Associate professor, University of Texas at Austin.
- 1997-00 Associate professor, University of Maryland Baltimore County (UMBC).
- 1997 Research assistant professor, Biological Institute, Aarhus University, Aarhus, Denmark.
- 1994- Invited professor, Master's Program (Tropical Botany, Zoology), San Marcos University, Lima, Peru.
- 1993-97 Assistant professor, University of Maryland Baltimore County (UMBC).
- 1992 Guest lecturer for portion of "Tropical Ecology" course at Aarhus University, Aarhus, Denmark.
- 1990-92 Postdoctoral research associate, Department of Geography, University of Colorado, Boulder.
- 1991-97 Research associate, Department of Botany, Field Museum, Chicago.
- 1988- Research associate, also made "honorary investigator" in 2014; Museo de Historia Natural, San Marcos University, Lima, Peru.

OTHER PROFESSIONAL RESEARCH EXPERIENCE

- 1984-7 Teaching assistant, University of Colorado.
- 1981-4 Research assistant assigned for assessing tropical forest succession and

- 1981 teaching assistant, Department of Botany, University of Florida.
Plant collector in Peru for Missouri Botanical Garden and the Flora of Peru Project.
- 1978-81 Volunteer in U.S. Peace Corps. Supervised reforestation and soil conservation programs in three highland communities in Guatemala, and organized an environmental education workshop for elementary school teachers.
- 1978 Lab technician for water quality monitoring, EPA Regional Laboratory, Chicago, IL. Did freshwater invertebrate identification.

PROFESSIONAL SOCIETY MEMBERSHIPS

American Association for the Advancement of Science
American Association of Geographers
Association of Tropical Biology and Conservation
International Association for Landscape Ecology
International Biogeography Society

FOREIGN FIELD EXPERIENCE

Peru: over 10 years total in all ecological life zones for academic and consulting research
Guatemala: 26 months in highlands as U. S. Peace Corps volunteer
Costa Rica: 9 months in lowlands (research) and highlands (Peace Corps training)
Ecuador: 7 months in lowlands and highlands
Various, supervision of graduate students and reconnaissance work, 1-6 weeks each:
Argentina, Belize, Bolivia, Botswana, Brazil, Colombia, Dominican Republic, Chile, Mexico, Panama, Puerto Rico, Venezuela

PROFESSIONAL TRAINING

2002-03 ERDAS IMAGINE software training in Fundamentals, Advanced, and Multispectral Classification

LANGUAGES

Fluent in Spanish.

HONORS

- 2020 W. S. Cooper Award from the Ecological Society of America, as one of numerous authors of the article "Persistent effects of pre-Columbian plant domestication on Amazonian forest composition."
- 2019 Elected fellow, American Association for the Advancement of Science
- 2013 Distinguished Miller lecturer, E. Willard and Ruby S. Miller Lectureship in Geography, Pennsylvania State University

PUBLICATIONS

Books and Special Journal Sections

- In progress K. R. Young (ed.). Land Change Science for the Anthropocene. *Land*.
- 2016 J. C. Postigo and K. R. Young (eds.). *Naturaleza y Sociedad: Perspectivas Socio-Ecológicas sobre Cambios Globales en América Latina*. (Nature and society: Socio-ecological perspectives on global changes in Latin America). Instituto de Estudios Peruanos, DESCO, INTE-PUCP, Lima. 444 p.

- 2016 K. R. Young, E. Y. Arima, E. Ashkenazi y A. Mercado. *Amenazas a los servicios ambientales de Loreto, Perú*. (Threats to environmental services in Loreto, Peru). Wildlife Conservation Society, Lima, Peru. 84 p.
- 2014 K. R. Young (guest editor). Landscape Perspectives on Environmental Conservation. Special issue of *Land* with 17 articles. http://www.mdpi.com/journal/land/special_issues/environmental-conservation
- 2013 E. M. Latrubesse, J. C. Stevaux, and K. R. Young (guest editors). Hydro-Geomorphologic Processes and Quaternary Landforms controlling Biotic Components in South American Wetlands. Special issue of *Journal of South American Earth Sciences* Volume 46: 110-198.
- 2007 T. T. Veblen, K. R. Young, and A. R. Orme (eds.). *The Physical Geography of South America*, Oxford University Press, Oxford. 356 p.
- 2006 K. R. Young and K. A. Crews-Meyer (guest editors). Landscape Form, Process, and Function: Coalescing Geographic Frontiers. Focus section of *The Professional Geographer* 58: 367-447.
- 2002 K. R. Young, C. Ulloa Ulloa, J. L. Luteyn and S. Knapp (guest editors). Plant Evolution and Endemism in Andean South America. *Botanical Review* 68(1): 1-188.
- 1998 K. S. Zimmerer and K. R. Young (eds.). *Nature's Geography: New Lessons for Conservation in Developing Countries*. University of Wisconsin Press, Madison. 351 p.
- 1998 A. Cano and K. R. Young (eds.). Los Pantanos de Villa, Biología y Conservación. (The "Villa" Wetlands, Biology and Conservation). *Museo de Historia Natural U.N.M.S.M. (Lima), Serie de Divulgación* No. 11: 1-238.
- 1993 F. Kahn, B. León and K. R. Young (eds.). Las Plantas Acuáticas en las Aguas Continentales del Perú. (Aquatic Plants in the Continental Waters of Peru). *Travaux de l'Institut Francais d'Etudes Andines* Tomo 75. IFEA (Institut Francais d'Etudes Andines), Lima. 357 p.
- 1992 K. R. Young and N. Valencia (eds.). Biogeografía, Ecología y Conservación del Bosque Montano en el Perú. (Biogeography, Ecology and Conservation of Montane Forests in Peru). *Memorias del Museo de Historia Natural U.N.M.S.M. (Lima)* 21: 1-227.
- 1980 K. R. Young. *Guía de Árboles para Viveros Forestales*. (Tree Guide for Forestry Nurseries). INAFOR, Guatemala. 200 p.

Journal articles (* peer reviewed)

- *2021 A. Denvir, E. Y. Arima, A. González, and K. R. Young. Ecological and human dimensions of avocado frontier expansion: Towards supply-chain sustainability. *Ambio*. Revision submitted.
- *2021 F. C. Draper et al. Amazon tree dominance across forest strata. *Nature Ecology and Evolution*. In press.

- *2021 O. Phillips et al. Taking the pulse of Earth's tropical forests using networks of highly distributed plots. *Biological Conservation*. In press.
- *2021 L. Zarbá, M. Piquer-Rodríguez, S. Boillat, Christian Levers, N. I. Gasparri, T. M. Aide, N. L. Álvarez-Berrios, L. O. Anderson, E. Araoz, E. Arima, M. Batistella, M. Calderón-Loor, C. Echeverria, M. Gonzalez-Roglich, E. Jobbágy, S.-L. Mathez-Stiefel, C. Ramirez-Reyes, A. Pacheco, M. Vallejos, K. R. Young, and H. R. Grau. Mapping and characterization of social-ecological land systems of South America. *Global Environmental Change*. Under review.
- 2020 R. A Chimner, R. Boone, G. Bowser, L. Bourgeau-Chavez, B. Fuentealba, J. Gilbert, J. A. Naupari, M. H. Polk, S. Resh, C. Turin, K. R. Young, and M. Zarría-Samanamud. Andes, bofedales, and the communities of Huascarán National Park, Peru. *Wetland Science & Practice* 37: 246-254.
- *2020 K. F. Doubleday, K. A. Crews, A. C. Eisenhart, and K. R. Young. Post-survey Likert constructions: An adaptive method for generalizing perceptions of environmental variability. *GeoJournal*, doi 10.1007/s10708-020-10251-y
- *2020 A. Guittard, M. Baraer, J. McKenzie, B. Mark, A. Rapre, J. Bury, M. Carey, and K. R. Young. Trace metal stream contamination in a post peak water context: Lessons from the Cordillera Blanca, Peru. *ACS Earth and Space Chemistry* 4: 506-514; 10.1021/acsearthspacechem.9b00269
- *2020 A. Malizia, C. Blundo, J. Carilla, O. Osinaga Acosta, F. Cuesta, A. Duque, N. Aguirre, Z Aguirre, M. Ataroff, S. Baez, M. Calderón-Loor, L. Cayola, L. Cayuela, H. Cedillo, W. Farfan Ríos, K. J. Feeley, A. F. Fuentes, L. E. Gámez Álvarez, H. R. Grau, O. Jadan, L. D. Llambi, M. I. Loza Rivera, M.J. Macía, Y. Malhi, L. R. Malizia, M. Peralvo, E. Pinto, J. S. Tello, M. Silman, and K. R. Young. Elevation and latitude drives structure and tree species composition in Andean forests: Results from a large-scale plot network. *PLOS ONE*, 15(4): e0231553. <https://doi.org/10.1371/journal.pone.0231553>
- *2020 R. Muscarella, T. Emilio, O. L. Phillips, S. L. Lewis, J. W. F. Slik, W. J. Baker, T. L. P. Couvreur, W. L. Eiserhardt, J.-C. Svenning, K. Affum-Baffoe, S.-I. Aiba, E. C. de Almeida, S. S. de Almeida, E. Almeida de Oliveira, E. Álvarez-Dávila, L. F. Alves, C. M. Alvez-Valles, F. A. Carvalho, F. Alzate Guarin, A. Andrade, L. E. O. C. Aragão, A. Araujo Murakami, L. Arroyo, P. S. Ashton, G. A. Aymard Corredor, T. R. Baker, P. Barbosa de Camargo, J. Barlow, J.-F. Bastin, N. Nssi Bengone, E. Berenguer, N. Berry, L. Blanc, K. Böhning-Gaese, D. Bonal, F. Bongers, M. Bradford, F. Brambach, F. Q. Brearley, S. W. Brewer, J. L. C. Camargo, D. G. Campbell, C. V. Castilho, W. Castro, D. Catchpole, C. E. Cerón Martínez, S. Chen, P. Chhang, P. Cho, W. Chutipong, C. Clark, M. Collins, J. A. Comiskey, M. N. Corrales Medina, F. R. C. Costa, H. Culmsee, H. David-Higueta, P. Davidar, J. del Aguila-Pasquel, G. Derroire, A. Di Fiore, T. Van Do, J.-L. Doucet, A. Dourdain, D. R. Drake, A. Ensslin, T. Erwin, C. E. N. Ewango, R. M. Ewers, S. Fauset, T. R. Feldpausch, J. Ferreira, L. Valle Ferreira, M. Fischer, J. Franklin, G. M. Fredriksson, T. W. Gillespie, M. Gilpin,

C. Gonmadje, A. U. Nimal Gunatilleke, K. Rehman Hakeem, J. S. Hall, K. C. Hamer, D. J. Harris, R. D. Harrison, A. Hector, A. Hemp, B. Herault, C. G. Hidalgo Pizango, E. N. Honorio Coronado, W. Hubau, M. Shah Hussain, F.-H. Ibrahim, N. Imai, C. A. Joly, S. Joseph, A. K. K. Kartawinata, J. Kassi, T. J. Killeen, K. Kitayama, B. Bang Klitgård, R. Kooyman, N. Labrière, E. Larney, Y. Laumonier, S. G. Laurance, W. F. Laurance, M. J. Lawes, A. Levesley, J. Lisingo, T. Lovejoy, J. C. Lovett, X. Lu, A. Mette Lykke, W. E. Magnusson, N. P. D. Mahayani, Y. Malhi, A. Mansor, J. L. Marcelo Peña, B. H. Marimon-Junior, A. R. Marshall, K. Melgaco, C. Mendoza Bautista, V. Mihindou, J. Millet, W. Milliken, D. Mohandass, A. L. Monteagudo Mendoza, B. Mugerwa, H. Nagamasu, L. Nagy, N. Seuaturien, M. T. Nascimento, D. A. Neill, L. Menini Neto, R. Nilus, M. P. Núñez Vargas, E. Nurtjahya, R. Nazaré O. de Araújo, O. Onrizal, W. A. Palacios, S. Palacios-Ramos, M. Parren, E. Paudel, P. S. Morandi, R. T. Pennington, G. Pickavance, J. J. Pipoly III, N. C. A. Pitman, E. Poedjirahajoe, L. Poorter, J. R. Poulsen, P. R. Chandra Prasad, A. Prieto, J.-P. Puyravaud, L. Qie, C. A. Quesada, H. Ramírez-Angulo, J. C. Razafimahaimodison, J. Meindert Reitsma, E. J. Requena-Rojas, Z. Restrepo Correa, C. Reynel Rodriguez, A. Roopsind, F. Rovero, A. Rozak, A. Rudas Lleras, E. Rutishauser, G. Rutten, R. Punchi-Manage, R. P. Salomão, H. Van Sam, S. K. Sarker, M. Satdichanh, J. Schiatti, C. B. Schmitt, B. Schwantes Marimon, F. Senbeta, L. Nath Sharma, D. Sheil, R. Sierra, J. E. Silva-Espejo, M. Silveira, B. Sonké, M. K. Steininger, R. Steinmetz, T. Stévant, R. Sukumar, A. Sultana, T. C. H. Sunderland, H. Satyanarayana Suresh, J. Tang, E. Tanner, H. ter Steege, J. W. Terborgh, I. Theilade, J. Timberlake, A. Torres-Lezama, P. Umunay, M. Uriarte, L. Valenzuela Gamarra, M. van de Bult, P. van der Hout, R. Vasquez Martinez, I. C. Guimarães Vieira, S. A. Vieira, E. Vilanova, J. Villalobos Cayo, O. Wang, C. O. Webb, E. L. Webb, L. White, T. J. S. Whitfield, S. Wich, S. Willcock, S. K. Wiser, K. R. Young, R. Zakaria, R. Zang, C. E. Zartman, I. C. Zo-Bi, and H. Balslev. The global abundance of tree palms. *Global Ecology and Biogeography* 29: 1495-1514; <https://doi.org/10.1111/geb.13123>

*2020 M. H. Polk, N. B. Mishra, K. R. Young, and K. Mainali. Greening and browning trends across Peru's diverse environments. *Remote Sensing*, 2020, 12, 2418; doi:10.3390/rs12152418

*2020 C. J. Schank, M. V. Cove, E. Y. Arima, L. S. E. Brandt, E. Brenes-Mora, A. Carver, A. Diaz-Pulido, N. Estrada, R. J. Foster, O. Godínez-Gómez, B. J. Harmsen, C. A. Jordan, T. H. Keitt, M. J. Kelly, J. Sáenz Méndez, E. Mendoza, N. Meyer, G. Pozo Montuy, E. J. Naranjo, C. K. Nielsen, G. O'Farrill, R. Reyna-Hurtado, M. Rivero, J. P. Carvajal Sánchez, M. Singleton, J. A. de la Torre, M. A. Wood, K. R. Young, and J. A. Miller. Population status, connectivity, and conservation action for the endangered Baird's tapir. *Biological Conservation* 245, 108501. <https://doi.org/10.1016/j.biocon.2020.108501>

*2020 M. J. P. Sullivan, S. L. Lewis, K. Affum-Baffoe, C. Castilho, F. Costa, A. C. Sanchez, C. E. N. Ewango, W. Hubau, B. Marimon, A. Moteagudo-Mendoza, L. Qie, B. Sonké, R. Vasquez Martinez, T. R. Baker, R. J. W. Brienen, T. R.

Feldpausch, D. Galbraith, M. Gloor, Y. Malhi, S.-I. Aiba, M. N. Alexiades, E. C. Almeida, E. Almeida de Oliveira, E. Álvarez Dávila, P. Alvarez Loayza, A. Andrade, S. Aparecida Vieira, L. Aragão, A. Araujo-Murakami, E. J. M. M. Arets, L. Arroyo, P. Ashton, G. Aymard C., F. B. Baccaro, L. F. Banin, C. Baraloto, P. Barbosa Camargo, J. Barlow, J. Barroso, J.-F. Bastin, S. A. Batterman, H. Beeckman, S. K. Begne, A. C. Bennett, E. Berenguer, N. Berry, L. Blanc, P. Boeckx, J. Bogaert, D. Bonal, F. Bongers, M. Bradford, F. Q. Brearley, T. Brncic, F. Brown, B. Burban, J. L. Camargo, W. Castro, C. Céron, S. Cerruto Ribeiro, V. Chama Moscoso, J. Chave, E. Chezeaux, C. J. Clark, F. Coelho, M. Collins, J. A. Comiskey, F. Cornejo Valverde, M. Corrales Medina, L. da Costa, M. Dančák, G. C. Dargie, S. Davies, N. Davila Cardozo, T. de Haulleville, M. Brilhante de Medeiros, J. del Aguila Pasquel, G. Derroire, A. Di Fiore, J.-L. Doucet, A. Dourdain, V. Droissant, L. F. Duque, R. Ekoungoulou, F. Elias, T. Erwin, A. Esquivel-Muelbert, S. Fauset, J. Ferreira, G. Flores Llampazo, E. Foli, A. Ford, M. Gilpin, J. S. Hall, K. C. Hamer, A. C. Hamilton, D. J. Harris, T. B. Hart, R. Hédli, B. Herault, R. Herrera, N. Higuchi, A. Hladik, E. Honorio Coronado, I. Huamantupa-Chuquimaco, W. Huaraca Huasco, K. J. Jeffery, E. Jimenez-Rojas, M. Kalamandeen, M.-N. Kamdem, E. Kearsley, R. Keichi Umetsu, L. Khoon Kho, T. Killeen, K. Kitayama, B. Klitgaard, A. Koch, N. Labrière, W. Laurance, S. Laurance, M. E. Leal, A. Levesley, A. J. N. Lima, J. Lisingo, A. P. Lopes, G. Lopez-Gonzalez, T. Lovejoy, J. Lovett, R. Lowe, W. E. Magnusson, J. Malumbres-Olarte, Â. G. Manzatto, B. H. Marimon Junior, A. R. Marshall, T. Marthews, S. M. de Almeida Reis, C. Maycock, K. Melgaço, C. Mendoza, F. Metali, V. Mihindou, W. Milliken, E. Mitchard, P. S. Morandi, H. L. Mossman, L. Nagy, H. Nascimento, D. Neill, R. Nilus, P. Núñez Vargas, W. Palacios, N. Pallqui Camacho, J. Peacock, C. Pendry, M. C. Peñuela Mora, G. C. Pickavance, J. Pipoly, N. Pitman, M. Playfair, L. Poorter, J. R. Poulsen, A. D. Poulsen, R. Preziosi, A. Prieto, R. Primack, H. Ramírez-Angulo, J. Reitsma, M. Réjou-Méchain, Z. Restrepo Correa, T. Rodrigues de Sousa, L. Rodriguez Bayona, A. Roopsind, A. Rudas, E. Rutishauser, K. Abu Salim, R. P. Salomão, J. Schiatti, D. Sheil, R. C. Silva, J. Silva Espejo, C. Silva Valeria, M. Silveira, M. Simo-Droissart, M. Fragomeni Simon, J. Singh, Y. C. Soto Shareva, C. Stahl, J. Stropp, R. Sukri, T. Sunderland, M. Svátek, M. D. Swaine, V. Swamy, H. Taedoumg, J. Talbot, J. Taplin, D. Taylor, H. ter Steege, J. Terborgh, R. Thomas, S. C. Thomas, A. Torres-Lezama, P. Umunay, L. Valenzuela Gamarra, G. van der Heijden, P. van der Hout, P. van der Meer, M. van Nieuwstadt, H. Verbeeck, R. Vernimmen, A. Vicentini, I. C. Guimarães Vieira, E. Vilanova Torre, J. Vleminckx, V. Vos, O. Wang, L. J. T. White, S. Willcock, J. T. Woods, V. Wortel, K. Young, R. Zagt, L. Zeng, P. A. Zuidema, J. A. Zwerts, and O. L. Phillips. Long-term thermal sensitivity of Earth's tropical forests. *Science* 368: 869-874.

*2020

H. ter Steege, P. I. Prado, R. A. F. de Lima, E. Pos, L. de Souza Coelho, D. de Andrade Lima Filho, R. P. Salomão, I. Leão Amaral, F. D. de Almeida Matos, C. V. Castilho, O. L. Phillips, J. E. Guevara, M. de Jesus Veiga Carim, D. Cárdenas López, W. E. Magnusson, F. Wittmann, M. Pires Martins, D. Sabatier, M. V. Irumé, J. R. da Silva Guimarães, J.-F. Molino, O. S. Bánki, M. T. Fernandez Piedade, N. C. A. Pitman, J. Ferreira Ramos, A. Monteagudo Mendoza, E. Martins Venticinque, B. Garcia Luize, P. Núñez Vargas, T. S.

Freire Silva, E. M. Moraes de Leão Novo, N. F. Costa Reis, J. Terborgh, A. G. Manzatto, K. Regina Casula, E. N. Honorio Coronado, J. C. Montero, A. Duque, F. R. C. Costa, N. Castaño Arboleda, J. Schöngart, C. E. Zartman, T. J. Killeen, B. S. Marimon, B. H. Marimon-Junior, R. Vasquez, B. Mostacedo, L. O. Demarchi, T. R. Feldpausch, J. Engel, P. Petronelli, C. Baraloto, R. L. Assis, H. Castellanos, M. Fragomeni Simon, M. Brilhante de Medeiros, A. Quaresma, S. G. W. Laurance, L. M. Rincón, A. Andrade, T. R. Sousa, J. L. Camargo, J. Schietti, W. F. Laurance, H. Lima de Queiroz, H. E. Mendonça Nascimento, M. Aparecida Lopes, E. de Sousa Farias, J. L. Lima Magalhães, R. Brienen, G. A. Aymard C., J. D. Cardenas Revilla, I. C. Guimarães Vieira, B. B. Ladvocat Cintra, P. R. Stevenson, Y. Oliveira Feitosa, J. F. Duivenvoorden, H. F. Mogollón, A. Araujo-Murakami, L. Valle Ferreira, J. R. Lozada, J. A. Comiskey, J. J. de Toledo, G. Damasco, N. Dávila, A. Lopes, R. García-Villacorta, F. Draper, A. Vicentini, F. Cornejo Valverde, J. Lloyd, V. H. F. Gomes, D. Neill, A. Alonso, F. Dallmeier, F. Coelho de Souza, R. Gribel, L. Arroyo, F. Antunes Carvalho, D. Praia Portela de Aguiar, D. Dantas do Amaral, M. Petratti Pansonato, K. J. Feeley, E. Berenguer, P. V. A. Fine, M. Carneiro Guedes, J. Barlow, J. Ferreira, B. Villa, M. C. Peñuela Mora, E. M. Jimenez, J. C. Licona, C. Cerón, R. Thomas, P. Maas, M. Silveira, T. W. Henkel, J., M. Ríos Paredes, K. G. Dexter, D. Daly, T. R. Baker, I. Huamantupa-Chuquimaco, W. Milliken, T. Pennington, J. S. Tello, J. L. Marcelo Pena, C. A. Peres, B. Klitgaard, A. Fuentes, M. R. Silman, A. Di Fiore, P. von Hildebrand, J. Chave, T. R. van Andel, R. R. Hilário, J. F. Phillips, G. Rivas-Torres, J. Costa Noronha, A. Prieto, T. Gonzales, R. de Sá Carpanedo, G. P. Gallardo Gonzales, R. Zárate Gómez, D. de Jesus Rodrigues, E. L. Zent, A. R. Ruschel, V. A. Vos, É. Fonty, A. Braga Junqueira, H. P. Dávila Doza, B. Hoffman, S. Zent, E. Marques Barbosa, Y. Malhi, L. C. de Matos Bonates, I. P. de Andrade Miranda, N. Silva, F. Rodrigues Barbosa, C. I. A. Vela, L. F. Mozombite Pinto, A. Rudas, B. Weiss Albuquerque, M. N. Umaña, Y. A. Carrero Márquez, G. van der Heijden, K. R. Young, M. Tirado, D. F. Correa, R. Sierra, J. Barbosa Pedrosa Costa, M. Rocha, E. Vilanova Torre, O. Wang, A. A. Oliveira, M. Kalamandeen, C. Vriesendorp, H. Ramirez-Angulo, M. Holmgren, M. Trindade Nascimento, D. Galbraith, B. Monteiro Flores, V. Vizoni Scudeller, A. Cano, M. A. Ahuite Reategui, I. Mesones, C. Baider, C. Mendoza, R. Zagt, L. E. Urrego Giraldo, C. Ferreira, D. Villarroel, R. Linares-Palomino, W. Farfan-Rios, L. F. Casas, S. Cárdenas, H. Balslev, A. Torres-Lezama, M. N. Alexiades, K. Garcia-Cabrera, L. Valenzuela Gamarra, E. H. Valderrama Sandoval, F. Ramirez Arevalo, L. Hernandez, A. Felipe Sampaio, S. Pansini, W. Palacios Cuenca, E. Almeida de Oliveira, D. Pauletto, A. Levesley, K. Melgaço, and G. Pickavance. Biased-corrected richness estimates for the Amazonian tree flora. *Scientific Reports* 10, 10130 (2020). <https://doi.org/10.1038/s41598-020-66686-3>

*2020 K. R. Young and S. A. Duchicela. Abandoning Holocene dreams: Proactive biodiversity conservation in a changing world. *Annals of the American Association of Geographers*, DOI: 10.1080/24694452.2020.1785833

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- 2013 E. M. Latrubesse, J. C. Stevaux, and K. R. Young. Hydro-geomorphologic processes and Quaternary landforms controlling biotic components in South American wetlands: Introduction. *In* E. M. Latrubesse, J. C. Stevaux, and K. R. Young (guest editors). *Hydro-Geomorphologic Processes and Quaternary Landforms controlling Biotic Components in South American Wetlands*. Special issue of *Journal of South American Earth Sciences* 46: 110-112.
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- 2002 K. R. Young. Biogeography and landscape ecology. President's Column, *Biogeography Specialty Group Newsletter*, Electronic Version Volume 2, No. 2.
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- 1997 K. R. Young and B. León. Corridors of life in the sand. *Américas* (Organization of American States, Washington, D.C.) March/April: 6-13. Also published in Spanish.
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AWARDS AND GRANTS

- 2021-26 Pending: \$1,800,000; Rodney Chimner et al., for "DISES: Ecosystem services and pastoralism in changing Andean landscapes", National Science Foundation.
- 2021-25 Pending: \$396,036; Kenneth R. Young, PI, Eugenio Y. Arima and Julio C. Postigo, co-PIs for "Collaborative research: Asymmetries in telecoupled upland/lowland land-use systems", Human-Environment and Geographic Sciences, National Science Foundation.
- 2021-22 \$63,820; Kenneth R. Young and Antonio González Rodríguez, PIs; Eugenio Arima and Felipe García Oliva, co-PIs; for "Avocado expansion in the forests of Michoacán: Land use change and ecosystem services".
- 2019 Faculty Research Assignment (1 semester leave, Spring 2019) for "Global Change and Conservation Policy", University of Texas at Austin.
- 2018 \$1000; as award for membership as faculty advisor in finalist proposal to the UT President's Award for Global Learning competition: "Project Oasis: What

Texas can learn from water conservation in the Negev”.

- 2016-2021 \$499,992; Gillian Bowser, PI, Randall B. Boone, Co-PI, Rodney A. Chimner, Co-PI, Andrew B. Taber, C-PI; Kenneth R. Young, Co-PI: “CNH-S: Andes, bofedales and cattle: The impacts of changing hydrology and glacial retreat on community livelihoods in Peru's Cordillera Blanca”, Division of Environmental Biology, National Science Foundation: Award Number DEB-1617429.
- 2012-2019 \$499,998; Patrick H. Martin, PI, Heidi Asbjornsen, Co-PI, Thomas W. Giambelluca, Co-PI, Kenneth R. Young, Co-PI: “RCN: Towards a Unified Ecology of Tropical Montane Cloud Forests”, Ecosystem Science Cluster, Division of Environmental Biology, National Science Foundation, Award number: 1146446.
- 2015-2017 \$71,541 (to each institution); Maria Imaculada Zucchi (PI, FAPESP) and K. R. Young (PI, UT-Austin), coPIs S. Jha and M Lopez-Uribe: “Promovendo a Dispersao dos Polinizadores e os Servicos de Polinizacao em Agroecosistemas de Algodoeiro no Brasil e nos EU.” (FAPESP-UTEXAS) (Promoting pollinator dispersal and pollination services in cotton agroecosystems of Brazil and the U.S.); FAPESP award# 2014/50738-9.
- 2010-2017 \$606,369; Kelley A. Crews, PI, Brian H. King, Co-PI, Kenneth R. Young, Co-PI; “Environmental Uncertainties and Livelihood Thresholds in the Okavango Delta, Botswana”; Geography & Spatial Sciences program (BCS-0964596), National Science Foundation.
- 2013-2015 \$15,881; Kenneth R. Young, PI and Molly H. Polk, Co-PI: “Doctoral Dissertation Research: Andean Glacier Recession and Implications for High Altitude Peatlands”, Geography and Spatial Sciences program, National Science Foundation, Award Number 1333141.
- 2013-2014 Faculty Research Assignment (2 semester leave) for “Conservation Biogeography of the Global Tropics”, University of Texas at Austin.
- 2012 \$1,294; Kenneth Young, Mellon Foundation travel grant, LLILAS; “Biogeography of the forestry sector in Guatemala”.
- 2011 Kenneth Young; Visiting Resource Professor program, LLILAS; to bring H. Ricardo Grau to UT-Austin.
- 2010-14 \$311,453; Kenneth R. Young, Co-PI, Award number: 1010381 on a collaborative research grant with Jeffrey Bury, PI, and Bryan Mark (Co-PI) and Mark Carey (Co-PI), “Hydrologic Transformation and Human Resilience to Climate Change in the Peruvian Andes”, Dynamics of Coupled Human-Natural Systems program, National Science Foundation.
- 2007-08 \$12,000; Kenneth R. Young and Ophelia Wang, “Multi-Scale Tree Diversity Conservation Implementation in the Western Amazon Based on Remote Sensing and Tree Inventory Data”, Doctoral dissertation research improvement grant (0726797), National Science Foundation.
- 2006-07 \$11,996; Kenneth R. Young and Manuel Peralvo, “Land use and land access patterns among the Achuar of the Ecuadorian Amazon: The role of market integration and shifting institutions”, Doctoral dissertation research

- improvement grant (0703306), National Science Foundation.
- 2006-07 \$44,421; Kenneth R. Young and Kelley A. Crews-Meyer, "Calibrating the Dynamism of Vulnerability in the Western Amazon"; SGER (Small Grants for Exploratory Research), National Science Foundation.
- 2006-07 \$12,000; Kenneth R. Young, Kelley A. Crews-Meyer, and Mario Cardozo, "Multilevel modeling of household and accessibility-zone drivers of land change in the northeastern Peruvian Amazon", Doctoral dissertation research improvement grant, National Science Foundation.
- 2006 \$2,880; Kenneth R. Young, "Incipient domestication of the Ungurahua palm in the western Amazon"; Mellon travel grants, Lozano Long Institute for Latin American Studies, University of Texas at Austin.
- 2006 Dean's Fellow (1 semester leave, Spring 2006), for "Evaluating Biodiversity Conservation in Relation to Biophysical and Social Changes in Tropical Countries", University of Texas at Austin.
- 2005-06 \$11,917, Kenneth R. Young and Lars Pomara. "Multi-scale investigation of environmental and human influences on the distribution of birds in the western Amazon", Doctoral dissertation research improvement grant (BCS-0526582), National Science Foundation.
- 2005 Faculty Research Assignment (1 semester leave, Fall 2005) for "Environmental consequences of climate change in the tropical Andes", University of Texas at Austin.
- 2004 \$2,600, Kenneth R. Young and Mario Cardozo, project with Ducks Unlimited on Pantanal remote sensing and natural resource management.
- 2004-05 \$1,500, Kelley A. Crews-Meyer, Kenneth R. Young and Amy L. Norman, for "Multi-seasonal characterization of land use/land cover in the western Amazon, Peru"; to NASA, Cryospheric Sciences Program.
- 2004-06 \$5,000; Kenneth R. Young and Jonathan Ogren NNEMS Biodiversity Management in Austin project for the U.S. Environmental Protection Agency.
- 2003 \$10,000; Kelley Crews-Meyer and Kenneth R. Young; for "Population-environment dynamism: Peruvian Amazon"; faculty research grant from UT-Population Research Center.
- 2002 \$23,000; Kelley Crews-Meyer and Kenneth R. Young; for "Andean land use/land cover change: linking social and environmental indicators"; faculty research grant from UT-Population Research Center through funding from Mellon Foundation.
- 2002 \$4,970; Kenneth Young; Mellon Foundation Faculty Fellowship in Latin American Studies #4, UT-Austin; for "Environmental conservation of Amazonian waterways".
- 2002 \$4,000; Kenneth Young; Visiting Resource Professor program, LLILAS; to bring Margaret Stern to UT-Austin.
- 2001 \$4,000; Kenneth Young; Visiting Research Professor program, LLILAS; to bring Ricardo Villalba to UT-Austin.

- 2001-03 \$4,000; to Jennifer Lipton, with Greg Knapp and Kenneth R. Young co-PIs; for "Human dimensions of conservation corridors: Cordillera Blanca in Peru", Doctoral dissertation research improvement grant (NSF #0117806), National Science Foundation.
- 2001-02 \$5,924; Kenneth Young, PI; for "Geographic information systems and biodiversity research in tropical South America"; faculty research grant from UT-Austin.
- 2000-01 \$50,000; to APECO (a Peruvian conservation NGO), with Kenneth Young as one of four research scientists; for "The impact of cattle raising on Rio Abiseo National Park in Peru"; Conservation science and training program of the John D. and Catherine T. MacArthur Foundation.
- 1999-2001 \$24,260; Kenneth Young, PI, Asunción Cano and Blanca León, co-investigators; for "Plant diversity and endemism in Peru's central highlands"; National Geographic Society Research and Exploration grant.
- 1998-00 \$20,000 for botany portion of grant for 750,000 ECUs (\$675,000); Andrew Millington, PI, and 28 other key personnel including Kenneth R. Young; for "Monitoring and modelling the impacts of changing government policies on biodiversity conservation in the Andes"; European Commission (INCO-DC).
- 1997-98 \$6,000; Kenneth Young, PI; for "Comparative evaluation of protection programs for nature reserves in Latin America"; Special Research Initiative Support, University of Maryland, Baltimore County, Graduate School.
- 1997-98 \$6,500; Blanca León, Asunción Cano, María Isabel La Torre and Kenneth Young, collaborative investigators; for "Botanical research in the information gap E11: high Andean zones of Tacna"; Program for Latin America and the Caribbean, World Wildlife Fund.
- 1995-98 \$282,800; Barbara Hansen, Blanca León, Donald Rodbell, Geoffrey Seltzer and Kenneth Young, co-principal investigators; for "High resolution glacial geologic and palynologic records of the last deglaciation in the tropical Andes"; EAR-9422423, Earth Sciences-Geologic Record of Global Change, National Science Foundation.
- 1994 \$900; Kenneth Young and Blanca León, co-principal investigators; for "Evaluation of human impact on native plant resources of Peru's arid coast"; Anne U. White Fund, Association of American Geographers Research Grants Competition.
- 1994-95 \$9,990; Kenneth Young, principal investigator; for "Relation of land-use practices to national park protection in the tropics: Yanachaga-Chemillen National Park"; Special Research Initiative Support, University of Maryland Graduate School, Baltimore.
- 1993-94 \$12,500; Blanca León, Kenneth Young, and Asunción Cano, co-principal investigators; for "Human impact on native plant resources of the arid Peruvian central coast"; Biodiversity Support Program, U.S.A.I.D.-funded consortium of World Wildlife Fund, The Nature Conservancy, and World Resources Institute.
- 1991-92 500 soles (\$550); Blanca León, Kenneth Young, and Asunción Cano, co-

- principal investigators; for "Evaluation of the current and future status of wetlands on the central Peruvian coast", project #0479-08-91-OAI-CONCYTEC; National Research Council of Peru (CONCYTEC).
- 1990-92 \$358,000; Blanca León, Thomas Veblen, and Kenneth Young, co-principal investigators; for "Biogeography and conservation of Peruvian montane forest"; John D. and Catherine T. MacArthur Foundation.
- 1988-90 \$85,000; Mariella Leo, Blanca León, Enrique Ortiz, Lily Rodriguez, Kenneth Young, co-principal investigators; for "Floristic and faunistic inventories of Rio Abiseo National Park, Peru"; Pew Charitable Trusts.
- 1987 \$300; Sigma Xi Grant-in-Aid of Research.
- 1987-89 \$25,000; National Science Foundation Dissertation Improvement Grant (SES-8713237), with Thomas Veblen, dissertation advisor.
- 1985-86 Fulbright-Hays Grant for study in Peru.
- 1984-85 University of Colorado Doctoral Fellowship.

TEACHING

- 2009- Professor, University of Texas at Austin. Courses taught: "Anthropocene", "Biogeography", "Climate Change", "Comparative Ecosystems", "Landscape Ecology", "Natural Environment", "Seminar in Biodiversity Conservation: Farms and Forests", "Seminar in Biodiversity Conservation: Global Change", "Seminar in Biodiversity Conservation: Human Dimensions", "Seminar in Biodiversity Conservation: Preparing for Change", "Seminar in Biodiversity Conservation: Species and Commodities", "Seminar in Biodiversity Conservation: Sustainable Landscapes", "Seminar in Biodiversity Conservation: Towards New Paradigms".
- 2011 Invited professor, Instituto de Estudios Peruanos (Institute for Peruvian Studies), Lima, co-taught with Julio Postigo: "Cambio global y sistemas socio-ecológicos de los Andes y la Amazonia" (Global change and socio-ecological systems in the Andes and the Amazon).
- 2000-07 Associate professor, University of Texas at Austin. Courses taught: "Biogeographical Consequences of Climate Change", "Biogeography", "Bioregions and Environmental Management in the Americas", "Climate Change", "Comparative Ecosystems", "Field Methods in Landscape Ecology", "Forest Biodiversity Conservation in Latin America", "Issues and Research in Geography", "Landscape Ecology", "Seminar in Biodiversity Conservation: Ecological Restoration", "The Natural Environment", "Useful (and Nuisance) Plants and Animals", "Wetlands and Floodplains: Ecology and Conservation".
- 1997-00 Associate professor, University of Maryland, Baltimore County. Courses taught: "Biogeography", "Ecosystems of North America", "Physical Geography", "Seminar in Biogeography", "Sustainability, Land Use, and Natural Resources", and "Weather and Climate".
- 1997 Research Assistant Professor, Biological Institute, Aarhus University, Aarhus, Denmark.

- 1994- Invited professor, Master's Program, San Marcos University, Lima, Peru.
- 1993-97 Assistant professor, University of Maryland, Baltimore County (UMBC).
Courses taught: "Biogeography", "Geography of Soils", "Physical Geography",
"Seminar in Biogeography", "Seminar in Ecological Biogeography",
"Sustainability, Land Use, and Natural Resources", and "Weather and Climate".
- 1992 Guest lecturer for portion of "Tropical Ecology" course at Aarhus University,
Aarhus, Denmark.
- 1988 Teaching instructor in "Environmental Systems: Climate and Vegetation" at
University of Colorado.

Current Theses and Dissertation Projects

- Audrey Denvir, Ph.D., "Avocados become a global commodity: Consequences for landscapes
and people". Co-directed with Eugenio Arima.
- Sisimac Duchicela, Ph.D., "Land-use transitions in Andean highlands: Ecological and
socioeconomic perspectives on landscape restoration".
- Aaron Groth, Ph.D., "Conservation, mapping, and governance of tropical Andean forests".

Current Graduate Student Committee Membership

- Ph.D.: Whitney Behr (Integrative Biology); Nichole Bennett (Integrative Biology); Amelia
Eisenhart (Geography); Sara Eshleman (Geography); Ashley Green
(integrative Biology); Daniel Levine (Geography); Alex Marden (Geography);
Alison Northup (Integrative Biology); Greta Wells (Geography); Carolyn Whiting
(Integrative Biology); Melody Zarría-Samanamud (Ecosystem Science and
Sustainability, Colorado State University), Anais Zimmer (Geography).
- M.A.: Daniel Silva (Geography)

Past Postdoctoral Fellow

- Alexandra Ponette, NSF Minority Postdoctoral fellowship, 2009-2011, "Ecological barriers
to montane forest restoration: Land use legacies and forest recovery in the tropical
Andes"

Theses/Dissertations Directed

- 2020 Sara Diamond, Ph.D., "Gender and tropical forest conservation in a multi-use
conservation area".
- 2016 Molly H. Polk, Ph.D., "‘They Are Drying Out’: Social-Ecological Consequences
of Glacier Recession on Mountain Peatlands in Huascarán National Park,
Peru". Finalist for the 2017 AAG Nystrom Award. Now associate director,
Sustainability Studies, UT-Austin.
- 2013 Mario Cardozo, Ph.D., co-chaired with Kelley Crews, "Smallholder livelihoods
and market accessibility in the Peruvian Amazon". Now assistant professor,
Department of Geography, Kutztown University, PA.

- 2012 Julio Postigo, Ph.D., "Responses of plants, pastoralists, and governments to social environmental changes in the Peruvian southern Andes". Won the 2012 Outstanding Dissertation Award for Social Sciences, Business and Education. Now assistant professor, Indiana University.
- 2011 Maria Jose La Rota Aguilera, M.A., "Guild-specific responses of birds to habitat fragmentation: Evaluating the effects of coffee production systems in Colombia". Now researcher, Pontificia Universidad Javeriana, Cali, Colombia.
- 2011 Ophelia (Yung-Ho) Wang, Ph.D., "Forest diversity and conservation in the western Amazon based on tree inventory and remote sensing data". Now an adjunct researcher associated with Northern Arizona University, and with Daemeter Consulting.
- 2010 Jessica Gordon, M.A., "An analysis of forest change: A case study of the Chocó-Andean Conservation Corridor in the upper Guayllabamba watershed, Ecuador".
- 2010 Mariana Montoya, Ph.D., "How access, values, and history affect the sustainable extraction of fish and timber for an Amazonian indigenous group: The Kandozi of the Pastaza River of Peru". Now Director of Wildlife Conservation Society in Peru.
- 2009 Lars Pomara, Ph.D., "Biogeography of upland bird communities in the Peruvian Amazon". Now a researcher of the USDA Forest Service.
- 2009 Carolina De la Rosa, M.A., "Environmental governance and implications of small-scale logging: The case of the Indigenous Groups in the Ampiyacu basin in the northeastern Peruvian Amazon".
- 2008 Fiorela Agusti, M.A., Latin American Studies, "Participatory planning in the Machu Picchu Historical Sanctuary, Peru"; co-chaired with Diana Davis.
- 2008 Jennifer K. Lipton, Ph.D., Geography & the Environment, "Human dimensions of conservation, land use, and climate change in Huascarán National Park, Peru". Now associate professor, Department of Geography, Central Washington University.
- 2008 Jonathan Ogren, M.A., Geography & the Environment, "Conservation planning in Greater Austin, Texas"; co-chaired with Robin Doughty. Now an environmental consultant, Siglo Group, Austin, TX.
- 2006 Julio Postigo, M.A., Latin American Studies, "Change and continuity in human and environment relations in a shepherd community in the high Andes of Peru".
- 2004 Grant Arthur Swanson, M.A., Latin American Studies and M.B.A., "A tale of two forests: the role of Brazilian forestry-based carbon sequestration projects in climate change policy". Environmental consultant, co-founder of the NorthStone Group and GB3 Energy Solutions, Denver, CO.

- 2003 Damion Brook Kintz, M.A., Geography, "Land use and land cover change between 1987 and 2001 in the buffer zone of a national park in the tropical Andes".
- 2003 Mary Harding Polk, M.A., Latin American Studies, "An assessment of conservation approaches for the natural protected areas in arid southern Peru".
- 1994 Asunción Cano, M.S., Tropical Botany, Universidad Nacional Mayor de San Marcos, Lima, Peru, "Sinopsis de la flora fanerogámica altoandina del Parque Nacional del Manu" ("Synopsis of the high Andean flowering plants of Manu National Park"). Cosupervised with Dr. Magda Chanco. Now full professor, San Marcos University, Lima, Peru.

Thesis/Dissertation Committee Membership

- Completed 2020: Brendan Hoover (Geography)
- Completed 2018: Kim Ballare (Integrative Biology); Robert Bean (Geography); Sarah Cusser (Integrative Biology); Cody Shanks (Geography)
- Completed 2017: Edgardo Ortiz (Integrative Biology); Xuebin Yang (Geography).
- Completed 2016: Paul Holloway, Ph.D.; Daniel Levine, M.A.; Joshua Rudow, Ph.D.; Kaitlin Tasker, M.A.; Oscar Vargas, Ph.D. (Integrative Biology); Mariana Vasconcellos, Ph.D. (Integrative Biology); Binyan Yan, Ph.D. (Geosciences).
- Completed 2014: Thomas Christensen, M.A.; Kumar Mainali, Ph.D. (Integrative Biology); Niti Mishra, Ph.D.
- Completed 2013: Katherine Lininger, M.A.; Ying Sun, Ph.D. (Geological Sciences)
- Completed 2012: Nikhil Advani, Ph.D. (Integrative Biology), Jesse Lasky, Ph.D. (Integrative Biology), Dylan Malcomb, M.A.
- Completed 2010: Karen Alofs, Ph.D. (Integrative Biology), Kendra Bauer, M.S. (Integrative Biology), Robert Borowski, M.S. (Community and Regional Planning)
- Completed 2009: Kevin Anderson, Ph.D.; Shannon Hedtke, Ph.D. (Integrative Biology); Frank Heitmuller, Ph.D; Alexandra Ponette, Ph.D. (Yale School of Forestry and Environmental Studies)
- Completed 2008: Jennifer Howeth, Ph.D. (Integrative Biology); Santiago Lopez, Ph.D.; Margaret Wallace, M.A.
- Completed 2007: Drew Bennet, M.A.; Sarah Harris, Ph.D.; Amy Neuenschwander, Ph.D.; David Salisbury, Ph.D., Scott Solomon (Integrative Biology), Ph.D.
- Completed 2006: Rob Plowes Ph.D. (Integrative Biology)
- Completed 2005: Heather Allard, M.A.; Mary Brook, PhD; Cullen Hanks, M.A.; Stuart Kirkham, PhD; Amy Norman, M.A.; Joanna Wolaver, M.A.
- Completed 2004: Manuel Peralvo, M.A.
- Completed 2003: Maria Fadiman, Ph.D.; Oscar Maldonado, M.A.; Drew Nelson, M.A.
- Completed 2002: Alexandra Ponette, M.A.

Preliminary PhD Exam Committee Service, Integrative Biology

- 2019: Whitney Behr
- 2017: Jacob Herman
- 2013: Andrew Tilker
- 2011: Nichole Bennett; Edgardo Ortiz; Oscar Vargas; Mariana Vasconcellos
- 2010: Kumar Mainali
- 2007: Nikhil Advani

2006: Karen Alofs, Kendra Bauer, Allison Gainsbury, Hayley Gillespie
2004: Evan Economo
2003: Kate Walter

Undergraduate Research

2020-21 Polymathic Scholars honors program, College of Natural Science: Sarah Hollis on "Invasive species in the Galapagos".

2018 Polymathic Scholars honors program, College of Natural Sciences: Rachel Pham on "Direct and Indirect Impacts of Cattle-Rearing on the Environment".

2017 B.S. Environmental Science project: Jazzmyne Herrington on "Invasive plants in central Texas".

2016 B.S. Environmental Science project: Kimberly Nichter on "Relationship between vegetation and socioeconomic status in Austin, Texas".

2015 B.S. Environmental Science projects: Shelby Manford on "Primary succession after glacial retreat in the Cordillera Blanca mountains of Peru"; Paige Lambert on "Effects of cut-throat trout in Yellowstone National Park"; and Tansy Stobart on "Glacial recession of the Cordillera Blanca: Assessing spatial patterns in Huascarán National Park, Peru".

2014-15 Alison Simerly, honor's thesis on an invasive species in Texas: "Invasion on the Texas Coast: An Overview of Brazilian Peppertree Management and Techniques to monitor its Spread Remotely".

2011-12 Andrew Townsend, honor's thesis "Large scale species distribution modeling: A case study of the endangered *Anegada* iguana in the British Virgin Islands", recipient of the Holz-English Honors Thesis fellowship for 2011.

2007 Anne Mariah Tapp, as second reader on honor's thesis "Surface hydrology of the Pastaza River in the Peruvian Amazon".

2005 Megan Chavez, as second reader on honor's thesis "Missing the forest for the trees? The debate over roadless area protection in the U.S. National Forests".

2005 Christine Manson, honor's thesis on environmental perceptions in Lake Titicaca in Peru.

2004 Corrie Colvin, environmental and social issues in Guatemala, independent project, recipient of an undergraduate research grant from UT-Austin and the Holz-English Honors Thesis Fellowship from the Department of Geography and the Environment, UT-Austin.

1999 Daniel Zimble, Lyme disease, coadvisor, independent project funded by UMBC Undergraduate Research Award.

1997 Beth Richardson, forests and soils, independent project funded by UMBC Undergraduate Research Award.

SERVICE

Significant Department, University, and Professional

2019-21 Member, Promotion and tenure committee, College of Liberal Arts, UT-Austin.

2019 Member, Advisory panel for Accelnet (Accelerating Research through International Network-to-Network Collaborations) grant competition, National Science Foundation.

2017 Member, Advisory panel for Dynamics of Coupled Natural-Human Systems grant competition, National Science Foundation.

- 2015 Member, external review for geography program of Portland State University.
- 2014 Observer, representing the Association of American Geographers, at the United Nations Framework Convention on Climate Change, Lima meeting, December 2014
- 2014 Member, Advisory panel for National Research Traineeship grant competition, National Science Foundation.
- 2013 Member, Advisory panel for Dynamics of Coupled Natural-Human Systems grant competition, National Science Foundation.
- 2012-13 Local Program Co-Chair, The 2013 US-IALE Annual Symposium: "Landscape dynamics along environmental gradients". International Association for Landscape Ecology, Austin, TX.
- 2012 Member, Advisory panel for Doctoral Dissertation Improvement grant competition, Geography and Spatial Sciences, National Science Foundation.
- 2012 Member, Advisory panel for Science and Technology Center competition, National Science Foundation.
- 2011 Member, Advisory panel for Dynamics of Coupled Natural-Human Systems grant competition, National Science Foundation.
- 2010 Member, Advisory panel for climate change prediction grant competition, National Science Foundation.
- 2010 Judge, J. Warren Nystrom Award competition, Association of American Geographers
- 2009-12 Chair, Department of Geography & the Environment, UT-Austin.
- 2009 Member, Advisory Panel for Office of Integrative Activities for reverse site visit reporting, National Science Foundation.
- 2007-09 Program Director, Geography and Spatial Sciences, National Science Foundation. Managed peer review and awards for program, plus coreview with other NSF programs.
- 2007 Member, Advisory Panel for Geography and Regional Science, National Science Foundation.
- 2003-04 Graduate advisor, Department of Geography, UT-Austin.
- 2003-07 Co-organizer of the Digital Landscape Roundtable, with Kelley Crews-Meyer, Department of Geography and the Environment, UT-Austin.
- 2002-03 Member, Doctoral Dissertation Research Improvement Advisory Panel for Geography and Regional Science, National Science Foundation.
- 2001-03 President, Biogeography Specialty Group, Association of American Geographers.
- 2001-02 Director, Center for Environmental Studies in Latin America (CESLA), Latin American Studies (LLILAS), UT-Austin.
- 2001-07 Chair, Environmental Concentration, Graduate Program in Latin American Studies (LLILAS), UT-Austin.

Other Department and University

- 2020 Participant, UT-Austin training: Distance Learning Course Development.
- 2019 Panelist, UT-Austin GlobeMed's World Café, Round table discussion on climate change.
- 2017 Panelist, Texas Chautauqua No. 10, Polymathic Scholars, College of Natural Science, UT-Austin: "The age of man: What are the scientific and social implications of the Anthropocene?".
- 2017 Panelist, "Climate Change from a Political Perspective", organized by International Affairs Society, UT-Austin.
- 2016-18, 2020- Member, Merit Committee, Department of Geography and the Environment
- 2016- Member, Undergraduate Committee, Department of Geography and the Environment
- 2016 Member, committee to evaluate UT-FAPESP proposals, Brazil Center, UT-Austin.
- 2016 Panelist, Texas Chautauqua No. 9, Polymathic Scholars, College of Natural Science, UT-Austin: "The case for and against a U.S. carbon tax".
- 2015 Member, Core curriculum assessment committee for the evaluation of social and behavioral science credits, Undergraduate Studies, UT-Austin
- 2013 Judge, Roden Scholar Case Study Competition, UT-Austin.
- 2012-13 Chair, Undergraduate Committee, Department of Geography and the Environment
- 2012-14 Member, Merit Committee, Department of Geography and the Environment
- 2012-13 Member, Environmental Science Coordinating Committee, UT-Austin.
- 2012-13 Member, Sustainability Studies Committee, UT-Austin.
- 2011-13 Human subjects (IRB) department representative, UT-Austin.
- 2010-12 Adhoc admissions committee, Research Experience for Undergraduates, Population Research Center, UT-Austin.
- 2010-18 Member, Liberal Arts LabSpace Faculty Advisory Committee
- 2001-07, 09-12 Admissions/fellowship committee, Lozano Long Institute of Latin American Studies, UT-Austin.
- 2007 Member, Computer committee, Department of Geography and the Environment, UT-Austin.
- 2006 Member, Graduate committee, Department of Geography and the Environment, UT-Austin.
- 2000-07 Member, Graduate Admissions and Awards committee, Department of Geography and the Environment, UT-Austin.
- 2000-07 Advisor, Landscape Ecology and Biogeography undergraduate track,

- Department of Geography and the Environment, UT-Austin.
- 2006 Member, Veselka Research Travel Award Committee, Department of Geography and the Environment, UT-Austin.
- 2005-6 Member, Merit pay committee, Department of Geography and the Environment, UT-Austin.
- 2005 Organizer and panelist in “Round Table Discussion: Climate Change and Society” in Colloquium series, Department of Geography and the Environment, UT-Austin.
- 2005 Moderator, “Imagining Ecology: History and Myth in South America”, XXV Student Conference on Latin America, Austin, TX.
- 2004-06 Assistant graduate advisor, Department of Geography and the Environment, UT-Austin.
- 2004-06 Chair, Curriculum committee, Department of Geography and the Environment, UT-Austin.
- 2004 Chair, Veselka Research Travel Award Committee, Department of Geography, UT-Austin.
- 2004 Co-organizer with Jennifer Potter-Andreu of two panel sessions (also moderator and discussant) and a student opportunity session for Amazon Week 2004, sponsored by the Brazil Center (LLILAS, UT-Austin): “Environmental and Social Research in the Amazon: Contextualizing Amazonia”, “Biodiversity and Society: Dynamic Relationships in the Amazon”, and “Study Abroad and Research Opportunities in the Amazon”.
- 2004 Outside member, job search committee for Integrative Biology/Environmental Science Institute faculty, UT-Austin.
- 2004 Chair, Agricultural Land Use and Conservation Policy session, First Conference of Texas Brazilianists, 10 April 2004, Austin, TX.
- 2004 Moderator for Natural Resources panel of the 24th ILASSA student conference on Latin America, February 2004, UT-Austin.
- 2002-04 Interim manager, Palynology Laboratory, Depart. of Geography, UT-Austin.
- 2003 Co-organizer with Jennifer Potter-Andreu and Rodrigo Sierra of three panel sessions for Amazon Week 2003, sponsored by the Brazil Center (LLILAS, UT-Austin) and scheduled for 3-7 November 2003: “Environmental and Social Change in the Amazon: Disturbing Thoughts from the Tropics”, “Agricultural Expansion and the Transformation of the Amazon”, “Research Topics and Opportunities in the Amazon”.
- 2003 Participant in roundtable discussion, Symposium on Sustainable Design and Development in the Americas, UT Center for Sustainable Development, Austin.
- 2002 Member, Veselka Research Travel Award Committee, Department of Geography, UT-Austin.
- 2001 Moderator, “The Good Earth: Natural resources in Latin America”, XXI Student Conference on Latin America, Austin, TX.

- 2000 Member, Undergraduate Research and Creative Achievement Committee, UMBC.
- 1998-00 Member, Admissions Committee, Shriver Center Peacemaker Program, UMBC.
- 1998-00 Chair, Landscape and Environmental Stewardship and Landscape Committee, UMBC.
- 1996-00 Curriculum committee, Geography Department, UMBC.
- 1995-97 Convener of the Stewardship Priority Group, Provost's Subcommittee on the Campus Environment, UMBC.

Other Professional

- 2020 Panelist, Overview of the state of Andean forests (“Estado actual de los bosques de montaña den los Andes y perspectivas para su conservación y gestión sostenible”), done through Zoom on 20 November, Helvetas and Condesan, Lima.
- 2020 Panelist, Forum on Andean forest documentary, done through Zoom and Facebook; commentary on “En Cada Hoja del Bosque” video produced by Helvetas and CONDESAN.
- 2020 Reviewer, IUCN Global Ecosystem Typology.
- 2019 Presenter; KIPP Austin Collegiate High School Majors Day, Austin, TX.
- 2019 Participant; workshop on development of methods for improving carrying capacity in protected grasslands, as part of Congress on high Andean puna in protected areas (Congreso de Ecosistemas Altoandinos de Puna en Áreas Naturales Protegidas), National Agrarian University La Molina, Lima.
- 2017 Participant and speaker (talk entitled “Retos y oportunidades para la gestión de los bosques andinos” (Challenges and opportunities for the management of Andean forests)); workshop of the Andean Forest Network, CONDESAN & vonHumboldt Institute, Bogota, Colombia.
- 2017 Guest lecturer, graduate course on “BioCultural Heritage and Critical Biogeography”, University of Georgia.
- 2017 Guest lecturer, graduate course on the Andes as a region, Catholic University of Lima, Peru.
- 2017 Participant, workshop on mapping forest change in the tropical Andes, sponsored by Mountain Research Initiative and CONDESAN, Quito, Ecuador.
- 2017 Reviewer, research competition for Andean Forest Program, CONDESAN.
- 2017 Participant, evaluation of planning for a national ecosystem map, Ministry of the Environment, Lima, Peru.
- 2017 Panelist, session entitled “The road we are travelling: The past, the present and the future for land systems science” in the annual meeting of the American Association of Geographers, Boston.
- 2017 Discussant, session entitled “Speed-dating with a NSF program officer” in the

- annual meeting of the American Association of Geographers, Boston.
- 2017 Discussant, session entitled “Behind the funding: Former NSF program officers discuss successful proposal submission” in the annual meeting of the American Association of Geographers, Boston.
- 2017 Co-organizer of two sessions on “Physical geography: climate histories and paleoecologies” in the annual meeting of the American Association of Geographers, Boston.
- 2016 Reviewer, research competition for Andean Forest Program, CONDESAN.
- 2016 Panelist, session entitled “Interdisciplinarity in graduate training in new institutional landscapes”, annual meeting of the American Association of Geographers, San Francisco.
- 2016 Panelist, session entitled “Getting funded vs staying funded: Former NSF program officers speak out on strategic proposal submission & the state of social science funding”, annual meeting of the American Association of Geographers, San Francisco.
- 2015 Panelist, session entitled “Past and present environmental science of the Neotropics and beyond”, annual meeting of the Association of American Geographers, Chicago, April 2015.
- 2014 Member, scientific advisory organizing group for International Pre-COP Symposium, Biodiversity and Climate Change: Contributions from Science to Policy for Sustainable Development, Lima, Peru.
- 2014 Participant, workshop on high elevation wetlands and climate change (“Bofedales y cambio climático”), National Agrarian University, La Molina, Lima.
- 2014 Member, scientific committee for the 23rd annual meeting of the Institute of Biological Sciences “Antonio Raimondi”, San Marcos University, Peru.
- 2013 Discussant, session entitled “Mapping extractive industries and livelihoods”, annual meeting of the Association of American Geographers, Los Angeles.
- 2013 Panelist, session entitled “NSF unplugged: What is the real story behind a winning proposal?”, annual meeting of the Association of American Geographers, Los Angeles.
- 2012-13 Organizing committee, session chair, speaker, and session panelist, Land Systems Science Symposium, annual meeting of the Association of American Geographers, Los Angeles, April 2013.
- 2012-13 Local planning committee, Annual January 2013 meeting of the American Meteorological Society, Austin, TX.
- 2012 Participant, session entitled “Towards a unified ecology of tropical montane cloud forests”, annual meeting of the Ecological Society of America, Portland, OR.
- 2012 Panelist, session entitled “Evolutionary geographies”, annual meeting of the Association of American Geographers, New York City.
- 2012 Discussant, session entitled “Changing landscapes from the Amazon to the

- Andes”, annual meeting of the Association of American Geographers, New York City.
- 2012 Panelist, session entitled “Speed-dating with a NSF program officer”, annual meeting of the Association of American Geographers, New York City.
- 2011 Panelist, roundtable discussion on environmental sustainability, International Affairs Society, UT-Austin.
- 2011 Discussant, session entitled “Understanding variability in social ecological systems”, annual meeting of the Association of American Geographers, Seattle, WA.
- 2010 Invited participation in workshop on “Expanding dialogue in the postdoctoral community towards broadening participation in the social, behavioral, and economic (SBE) sciences.” National Postdoctoral Association, National Science Foundation, Arlington, VA.
- 2010 Panelist, Roundtable session on ecosystem conservation priorities in the Americas, annual meeting of the Association of American Geographers in Washington, DC.
- 2010 Panelist, session entitled “Advocacy in biogeographic science”, annual meeting of the Association of American Geographers in Washington, DC.
- 2009 Panelist, Understanding coupled natural-human systems: developing competitive ideas for the NSF CNH program, annual meeting of the Association of American Geographers in Las Vegas.
- 2009 Panelist, Challenges of collaborative and interdisciplinary research projects, annual meeting of Association of American Geographers in Las Vegas.
- 2009 Participant, National Geographic Society destination stewardship survey.
- 2009 External reader for a Yale University Ph.D. dissertation.
- 2009 Organizer of four workshops at the annual meeting of the Association of American Geographers in Las Vegas on writing proposals for the National Science Foundation.
- 2008-09 Assisted with peer review and proposal management for interdisciplinary competitions in National Science Foundation: Dynamics of Coupled Natural-Human Systems, Human & Social Dynamics, Long Term Ecological Research, Science and Technology Centers.
- 2008-09 Invited participation in Scientific Committee on Problems of the Environment (SCOPE) meeting and report on effects of climate change in the Andes, including a workshop in Ubatuba, Brazil in 2009.
- 2008 Participant, workshop on GLORIA mountain climate change program, Quito, Ecuador.
- 2008 Organizer of four workshops at the annual meeting of the Association of American Geographers in Boston on writing proposals for the National Science Foundation.
- 2008 Participant, Workshop on science challenges and future directions for

- integrated assessment research, Department of Energy, Arlington, VA.
- 2008 Invited participation in stewardship survey panel for World Historical Sites, National Geographic Society.
- 2008 Panelist, Development geography and the human dimensions of environmental change: practice; annual meeting of the Association of American Geographers in Boston.
- 2007-09 Member, Land Use Working Group of the U.S. Climate Change Science Program
- 2006-08 Member, Comité Consultivo del Proyecto de Conservación y Manejo Sostenible de los Humedales de la Costa Central del Perú (Advisory board, Conservation and Sustainable Management Project for the Wetlands of the Central Coast of Peru).
- 2006-07 Invited participation in stewardship survey panel for World Heritage sites, National Geographic Society.
- 2006 Organizer and leader of field trip sponsored by the Biogeography Specialty Group for the annual meeting of the Association of American Geographers meeting in Chicago in March 2006: "Fieldwork! A Behind-the-Scenes Tour of the Field Museum's Biodiversity Programs".
- 2005 Organizer and chair of a paper session entitled "Tropical rarity: Biogeography of endemism in low latitude environments", sponsored by the Biogeography Specialty Group, for the annual meeting of the Association of American Geographers meeting in Denver in April 2005.
- 2004 Judge, student paper presentation, Biogeography Specialty Group, Association of American Geographers.
- 2004 Co-organizer and co-chair with Kelley Crews-Meyer of a paper session entitled "Coalescing Frontiers? Landscape Ecology and GIScience", sponsored by the Biogeography Specialty Group, the Geographic Information Systems Specialty Group, and the Remote Sensing Specialty Group, for annual meeting of the Association of American Geographers meeting in Philadelphia.
- 2003- Member, Advisory Committee, *Revista Peruana de Biología*.
- 2003 Organizer and chair of paper session entitled "Biogeography and Political Ecology: Possibilities for Engagement", sponsored by the Biogeography Specialty Group, the Cultural and Political Ecology Specialty Group, and the Mountain Geography Specialty Group, for annual meeting of the Association of American Geographers meeting in New Orleans.
- 2002 Participant, Workshop on the classification of Andean ecological systems, NatureServe and The Nature Conservancy, Lima, Peru.
- 2002-03 Collaborator, Ecological Systems of Latin America and the Caribbean Project, NatureServe, Arlington, VA.
- 2001 Chair, biogeography session, Southwestern Division of the Association of American Geographers annual meeting.

- 2001 Organized illustrated poster session entitled "Applied Biogeography" for annual meeting of the Association of American Geographers meeting in New York.
- 2000 Member, Ad Hoc Selection Committee for the 2000-2001 Roger Revelle Fellowship in Global Stewardship, AAAS.
- 1999 Co-organized (with Sandra Knapp) paper session for the XVI International Botanical Congress entitled "Endemism in the Andes: patterns and processes".
- 1999-00 Consultant for National Geographic Project, "Atlas of Natural America".
- 1997 Organized paper session entitled "The status and future of biogeography" at the Association of American Geographers annual meeting.
- 1996-97 Conducted the competition for student research grants from the Biogeography Specialty Group, Association of American Geographers.
- 1996 Mentor for the NASA/NSTA Space Science Student Involvement Program, Mars Regional Symposium in Goddard Space Flight Center in March.
- 1995 Organized paper session entitled "Perspectives on tropical conservation" at the Association of American Geographers annual meeting.
- 1995-97 Board member, Biogeography Specialty Group, Association of American Geographers.
- 1995- Member, World Commission on Protected Areas, The World Conservation Union (IUCN).
- 1994-95 Member, UMBC Environmental Stewardship Committee.
- 1994-95 Member of working group on biodiversity in the "Plan Director" evaluation of Peru's national park and nature reserve system.
- 1994-98 Advisor and honorary associate, TARUCA (Trabajos en Areas Rurales y Urbanas de Conservación Ambiental), Lima, Peru.
- 1993 Co-organized (with M. Savage) paper session entitled "New strategies for conservation from biogeographers" at the Association of American Geographers annual meeting.
- 1993 Organized session entitled "Coca-cocaine-opium deforestation and its conservation implications" at the Neotropical Montane Forest symposium in New York.
- 1991 Co-organized (with N. Valencia) symposium in Lima entitled "Biogeography, ecology, and conservation of montane forests in Peru".

Peer Reviews (Journals and Book Publishers)

Books or book proposals:

Instituto de Ecología (Bolivia); National Research Council (U.S.A.); Pearson; Routledge; SAGE (UK); Smithsonian Institution Press; Springer Nature; Taylor & Francis; University of Chicago Press; Wiley and Sons.

Journal:

Acta Oecologica, Agriculture, Ecosystems and Environment, Animal Conservation, Ambio,

American Fern Journal, American Naturalist, Annals of the Association of American Geographers, Applied Geography, Arctic and Alpine Research, Biodiversity and Conservation, Biodiversity Letters, Biological Conservation, Biotropica, Boletín de la Sociedad Botánica de México, Bulletin de l'Institut Français d'Études Andines, Bulletin of the Torrey Botanical Club, Canadian Journal of Botany, Community Ecology, Diversity, Diversity and Distribution, Ecology, Ecología en Bolivia, Ecological Economics, Ecology and Society, Ecotropica, Elementa, Environmental Conservation, Environmental Research Letters, Environmental Science & Policy, Environmental Science & Technology, Erdkunde, Fire Ecology, Folia Geobotanica, Forest Ecology and Management, Geoforum, Geografiska Annaler B: Human Geography, Geographical Analysis, Geographical Journal, Geographical Review, Geography Compass, Geomorphology, Geophysical Research Letters, Global Change Biology, Global Ecology and Conservation, Helicyon, The Holocene, Human Ecology, International Journal of Drug Research, International Journal of Geographical Information Science, Journal of Agricultural and Biological Sciences, Journal of Biogeography, Journal of Ecology, Journal of Environmental Management, Journal of Environmental Planning and Management, Journal of Ethnobiology, Journal of Latin American Geography, Journal of Mountain Science, Journal of Planning Education and Research, Journal of Political Ecology, Journal of Rural Studies, Journal of Urban Technology, Journal of Vegetation Science, Journal of World-Systems Research, Land, Land Degradation & Development, Latin America Research Review, Mountain Research and Development, PeerJ, Perspectives in Plant Ecology, Evolution and Systematics, Physical Geography, Plant Ecology, Plant Ecology & Diversity, PLOS Computational Biology, PLOS ONE, Professional Geographer, Quaternary Research, Regional Environmental Change, Remote Sensing Applications: Society and Environment, Restoration Ecology, Revista Peruana de Biología, Society & Natural Resources, Sustainability: Science, Practice, and Policy, Trees, World Development.

External Promotion Reviews

Brigham Young University, Carleton University, Colorado State University, George Mason University, Kansas State University, Northern Illinois University, Ohio University, Oregon State University, Pennsylvania State University, Portland State University, Rutgers University, State University of New York at Buffalo, Syracuse University, Temple University, Texas A&M University, University of Alabama, University of Auckland, University of California in Los Angeles, University of California-Santa Cruz, University of Colorado, University of Delaware, University of Denver, University of Georgia in Athens, University of Illinois at Urbana-Champaign, University of Iowa, University of Kansas, University of Maryland Baltimore County, University of Miami, University of Missouri in Columbia, University of Missouri-Kansas City, University of New Mexico, University of New Orleans, University of Nevada at Reno, University of Oklahoma, University of Oregon, University of Toronto, University of Wisconsin at Madison, University of Wisconsin at Parkside, University of Wyoming, Vassar College, Willamette University.

External Dissertation Examiner

Flinders University, McGill University

Grant Reviews

Biogeography Specialty Group (AAG) Student Research Grants
Fondecyt (Chile)

German Academic Exchange Service (DAAD), PRIME postdoctoral programme

German Centre for Integrative Biodiversity Research (iDiv), Halle-Jena-Leipzig
Inter-American Institute for Global Change Research (IAI)
International Foundation for Science
National Geographic Society
Natural Environment Research Council (U.K.)
National Science Foundation
Volkswagen Foundation (Germany)

Editorial Boards

2011-present, *Land*

2004-07, *Annals of the Association of American Geographers*

RESEARCH PRESENTATIONS

Invited

- 2020 Invited speaker (given through recording in Zoom), International Mountain Day, First World Virtual High Mountain Summit in Colombia: Monitoring systems of high mountain forest, paramos and glaciers, IDEAM, Colombia: "Dynamics, biodiversity, and ecosystem services of North and South American montane forests."
- 2020 Invited speaker (given through Zoom), World Day to Combat Desertification and Drought, organized by Peru's Natural History Museum, Lima: "Biodiversidad y la desertificación: Vínculos y oportunidades" (Biodiversity and desertification: Linkages and opportunities).
- 2019 Invited speaker, Congress on high Andean puna in protected areas (Congreso de Ecosistemas Altoandinos de Puna en Áreas Naturales Protegidas), National Agrarian University La Molina, Lima: "Manejando relaciones pastizales-vida Silvestre (Managing grassland-wildlife relationships).
- 2019 Keynote speaker, World Wetlands Day, organized by Peru's SERFOR, Lima, Peru: "Los humedales del Perú (en tiempos de cambios globales)" (Peru's wetlands in the context of global change).
- 2018 Keynote speaker, National Protected Area Congress, Lima, Peru: "Efecto de cambio climático en ecosistemas alto andinos de las áreas naturales protegidas: Caso Parque Nacional Huascarán" (Climate change effects on high elevation ecosystems in protected natural areas: The case of Huascarán National Park).
- 2018 Keynote speaker, 16th National Botanical Congress, Ayacucho, Peru: "Biogeografía del Antropoceno: Una agenda de investigación" (Biogeography of the Anthropocene: A research agenda).
- 2018 Keynote speaker, Mountain Futures Conference, Kunming, China: "Ecosystem regime shifts, possible synergies, and the Andes Mountains of the future".
- 2018 Invited speaker, for symposium entitled "No longer a transitional zone: Local developments, interaction, and exchange in the Ceja de Selva" in the annual meeting of Society for American Archaeology, Washington, DC: "Ecology and human habitation of Andean forests".
- 2018 Keynote speaker, 100 year anniversary ceremony and biodiversity meeting,

- Natural History Museum (Museo de Historia Natural UNMSM), Lima, Peru: “Biogeografía del Antropoceno” (Biogeography of the Anthropocene).
- 2017 Invited speaker, UTEC (University of Engineering and Technology, Lima) and Programa Bosques Andinos: “Cambios globales y los sistemas socio-ecológicos” (Global change and socio-ecological systems).
- 2016 Invited speaker for Applied Biodiversity Science seminar series, Texas A & M University: “Policy-relevant biodiversity research in the Andes and Amazon.”
- 2016 Keynote speaker for International Forum on Glaciers and Mountain Ecosystems, July 10-13, Huaraz, Peru: “Cambios globales en los ecosistemas Andinos: Riesgos e intervención humana” (Global changes in Andean ecosystems: Risks and human interventions).
- 2016 Keynote speaker for Symposium on Physical Geography: Challenges of the “Anthropocene” VI: Plenary Synthesis Session on Researching and Teaching the “Anthropocene”, Annual Meeting of the American Association of Geographers, San Francisco: “Researching and teaching the “Anthropocene”.
- 2015 Invited speaker for CEBIO (Centro de Ecología y Biodiversidad) meeting: I International Meeting: Biodiversity and Conservation of the Tropical Andes and the Amazon Rainforest. October 15-18, Lima, Peru: “Challenges of novel ecosystems and shifting baselines for conservation planning”.
- 2015 Keynote speaker, for 4 August 2015, 24th annual meeting (ICBAR: Institute of Biological Sciences “Antonio Raimondi”), San Marcos University, Lima: “Teleconexiones y cambios en los sistemas socio-ecológicos” (Teleconnections and changes in socio-ecological systems).
- 2015 Invited speaker, for 29 July 2015, meeting on Andean forests in Quito, Ecuador, organized by CONDESAN and Helvetas: “Dinamismo y context espacial de los bosques andinos” (Dynamism and spatial context of Andean forests).
- 2014 Keynote speaker, December 2014, for the inauguration event of a new programme on Andean Forests and Climate Change, funded by the Swiss Agency for Development and Cooperation (SDC). Done during the UN Framework Convention on Climate Change meeting in Lima.
- 2014 Keynote speaker, August 2014, 23rd annual meeting (ICBAR: Institute of Biological Sciences “Antonio Raimondi”), San Marcos University, Lima: “Cambios ambientales globales y regionales: Perspectivas socio-ecológicas sobre costa, sierra y selva” (Global and regional environmental changes: Socio-ecological perspectives concerning coast, highlands, and rainforest).
- 2013 Invited speaker for Miller lecture given in October, Department of Geography of Pennsylvania State University; honored as a “Distinguished Miller Lecturer” through the E. Willard and Ruby S. Miller Lectureship in Geography; “Sustainability Trade-offs in the Andes and Amazon of Peru.”
- 2013 Invited speaker for the seminar series of the Department of Geography, Rutgers University, “Sustainability Trade-offs in the Andes and Amazon of Peru.”

- 2013 Keynote speaker, July 2013, for USAID and High Mountain Glacial Watershed Program workshop entitled “Managing climate change in high mountain glacial watersheds: Promoting social, scientific, and institutional collaboration”. Title: “Climate change, people, and mountains”.
- 2012 Keynote speaker, National Botanical Congress, Trujillo, Peru in October 2012; “La biogeografía del future (Biogeography of the future)”. (Also made “distinguished guest” by the National University of Trujillo).
- 2009 Keynote speaker, Third Forum on Natural Protected Areas, Chiclayo, Peru, “Las áreas naturales protegidas en un contexto de cambio climático (Protected conservation areas in the context of climate change).”
- 2009 Invited speaker for Chauncy Harris lecture, Brigham Young University, “Environmental change and coupled natural-human systems in the western Amazon.”
- 2009 Invited speaker, Forum on páramo conservation, Bogota, Colombia, “Ecología, evolución y economía de los páramos en un mundo cambiante (Ecology, evolution, and economics of páramos in a changing world).”
- 2009 Invited speaker, Forum on reducing impacts on Andean forest ecosystems, 13th World Forestry Congress, Buenos Aires, Argentina, “Identificación y caracterización de fuerzas impulsoras y generadoras de deforestación y degradación en ecosistemas andinos (Identification and characterization of drivers of deforestation and degradation in Andean ecosystems).”
- 2009 Keynote speaker, Second Páramo Congress in Loja, Ecuador, “Identificación y caracterización de fuerzas impulsoras y generadoras de deforestación y degradación en ecosistemas andinos (Identification and characterization of drivers of deforestation and degradation in Andean ecosystems).”
- 2009 Invited speaker, Department of Geography and Environmental Systems, University of Maryland Baltimore County, “Consequences of current environmental change in the Amazon and in the Andes Mountains.”
- 2008 Invited speaker, Wake Forest University, “Land use and environmental dynamism in the western Amazon.”
- 2008 Invited speaker, University of Richmond, “Amazon dreams: Environmental change in the Amazon basin.”
- 2007 Invited speaker for 54th Annual Systematics Symposium, Missouri Botanical Garden: “Andean land use and biodiversity: Historical legacies, humanized landscapes, and future species extinctions.”
- 2007 Invited speaker for second Latin America protected area congress, Bariloche, Argentina: “Ecología, evolución y economía de los páramos en un mundo cambiante (Ecology, evolution, and economics of paramos in a changing world).”
- 2006 Invited speaker for Yi-Fu Tuan Lecture Series (also Frontiers in Biogeography Lecture Series), Department of Geography, University of Wisconsin at Madison: “Challenged by diversity: Biogeography and conservation of tropical landscapes”.

- 2006 Invited speaker for Seminario Internacional de Biodiversidad en Homenaje a Augusto Weberbauer (International Seminar on Biodiversity in Honor of Augusto Weberbauer), San Marcos University, Lima, Peru.
- 2003 Keynote speaker for Geography Awareness Week, University of Wyoming: "Tropical Latitudes, Tropical Attitudes: Habitat Protection from the Andes to the Amazon of South America"
- 2002 Workshop entitled "Spaces of Hope? Globalization and New Geographies of Conservation", University of Wisconsin, Madison, as a discussant.
- 2002 International Year of the Mountains meeting in Huaraz, Peru, as a panelist.
- 2002 Invited principal speaker, "La Amazonía Aloctona", Peruvian National Botanical Congress, Iquitos.
- 1998 George Washington University, Department of Geography, "Conserving the highlands and the drylands: Environmental strategies in Peru".
- 1996 University of Nebraska-Lincoln, Environmental Studies Seminar Series: "Conservation of threatened tropical ecosystems".
- 1996 Inter-American Institute for Global Change Research workshop on Assessment of Present, Past and Future Climate Variability in the Americas from Treeline Environments in Jasper, Alberta: "Tropical treelines of the Americas".
- 1995 University of South Florida, Tampa, Department of Biology's Tryon Lecture Series: "Rethinking tropical conservation: The view from the central Andes".
- 1994 Mid-Atlantic Division of the Association of American Geographers dinner talk: "Biogeography and conservation of montane forest on the eastern slopes of Peru".
- 1993 Tropical montane cloud forest symposium, San Jose, Puerto Rico: "Distribution and conservation of Peru's montane forests".
- 1989 Rainforest night: education and conservation; University of Missouri, St. Louis: "The cocaine connection to tropical deforestation".

Academic Conferences

- 2019 Open Science Meeting, Global Land Programme, in Bern, Switzerland. Poster presentation: "Post-glacial landscapes and land-use adaptations in the high mountains of Peru" by Kenneth R. Young, Molly H. Polk, and Sisimac Duchicela.
- 2017 American Association of Geographers Annual Meeting paper session in Boston on vegetation dynamics, "Change in a tropical treeline forest."
- 2016 Association of Tropical Biology and Conservation meeting, June 2016, Montpellier, France, in the symposium entitled The future of tropical montane forests: Biodiversity, climate change, land use, and conservation, "Conservation planning for tropical montane forests."
- 2015 Association of American Geographers Annual Meeting paper session in Chicago, "Adaptation in a glaciated watershed: Shifting towards novel states."

- 2014 Global Land Project Second Open Science Meeting in Berlin, Germany, in session entitled The Role of Governance in Adaptation to Global Change in Mountain Regions, "Environmental governance of changing tropical mountains."
- 2013 Association of Tropical Biology and Conservation meeting, June 2013, San Jose, Costa Rica, in the symposium entitled Towards a Unified Ecology of Tropical Montane Cloud Forests, "Human dimensions of the Tropical Montane Cloud Forest Syndrome."
- 2013 U.S. chapter of the International Society of Landscape Ecology Annual Meeting paper session in Austin, TX, "Land cover and vegetation change across the Cordillera Blanca mountain range of northern Peru."
- 2013 Association of American Geographers Annual Meeting paper session in Los Angeles, "Vegetation change across a mountain range: Using a land systems approach to examine the Cordillera Blanca of northwestern Peru."
- 2012 Association of American Geographers Annual Meeting paper session in New York City, "Linking biogeography to watershed-scale processes: Implications for the high Andes."
- 2011 Southwestern Division of the Association of American Geographers (SWAAG) Annual Meeting organized special paper session in Austin, TX, "Biogeographical processes and coupled natural-human systems: Examples from utilized tropical landscapes in Botswana and Peru."
- 2011 Association of American Geographers Annual Meeting paper session in Seattle, WA, "Biogeographical consequences of global change in the high Andes of Peru."
- 2010 Global Land Project 2010 Open Science Meeting, Tempe, Arizona, "Implications of global change for high Andean biodiversity and land cover: Examples from Peru."
- 2010 Association of American Geographers Annual Meeting paper session in Washington, DC, "Landscape management for hydrological connectivity."
- 2009 Association of American Geographers Annual Meeting paper session in Las Vegas, "Climate change and indigenous livelihoods: Examples from Peru".
- 2008 Association of American Geographers Annual Meeting paper session in Boston, "Subsurface political ecology: Social and environmental concerns surrounding copper mines and petroleum wells in western South America".
- 2007 Association of American Geographers Annual Meeting paper session in San Francisco, "Drivers of landscape and agricultural change in floodplains of the western Amazon".
- 2006 Association of American Geographers Annual Meeting paper session in Chicago, "Successional vegetation processes at the retreating margins of Peru's Quelccaya Ice Cap".
- 2005 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Bonn, Germany: "Stasis and flux in long-inhabited

- locales: Change in rural Andean landscapes”.
- 2005 Association of American Geographers Annual Meeting paper session in Denver, “Species endemism and extinction: Theoretical and practical considerations”.
- 2004 Association of American Geographers Annual Meeting paper session in Philadelphia, “Landscape ecology of protected areas”.
- 2004 Conference of Latin Americanist Geographers Meeting paper session in Antigua, Guatemala, “Landscape ecology and the study of protected areas”.
- 2003 Association of American Geographers Annual Meeting paper session in New Orleans, “Domesticated animals as agents of landscape change: examples from the Andes and the Amazon”.
- 2002 Association of American Geographers annual meeting in Los Angeles as a discussant: “Genetic research in biogeography”.
- 2002 Association of American Geographers Annual Meeting paper session in Los Angeles, “Fire and livestock impacts on the grasslands in a protected high Andean landscape”.
- 2001 Association of American Geographers annual meeting in New York as a panel discussant: “New directions in biogeography: theory and methodology”.
- 2001 Southwestern Division of the Association of American Geographers annual meeting paper session, “Biodiversity in deforested tropical landscapes, with implications for ecological restoration”.
- 2000 Association of American Geographers Annual Meeting session in New York, “Landscape controls on the composition and structure of tropical montane forests”.
- 1999 Association of American Geographers annual meeting in Honolulu, Hawaii as a panel discussant: “Geography’s potential role in ecosystem management”.
- 1999 Association of American Geographers Annual Meeting session in Honolulu, “Biogeography”.
- 1999 XVI International Botanical Congress, St. Louis, MO: “Plant endemism in Peru”.
- 1998 Association of American Geographers annual meeting organized session in Boston, Massachusetts: “The limits of biogeography: consequences of vegetation change in a national park in the tropics”.
- 1998 Association of Tropical Biology Annual Meeting session in Baltimore: “Conservation lessons from an urban wetland reserve in coastal Peru”.
- 1997 Association of American Geographers Annual Meeting session in Ft. Worth: “The nature of biogeography”.
- 1997 VI International Congress of Latinoamericanist Geographers, Arequipa, Peru: “El límite altitudinal de los bosques tropicales de las Americas”.
- 1996 Association of American Geographers Annual Meeting organized session in Charlotte, North Carolina: “Biogeography and conservation of *Polylepis* forests in southern Ecuador”.

- 1995 Association of American Geographers Annual Meeting session in Chicago: "Threats to biological diversity caused by coca/cocaine deforestation in Peru".
- 1995 Smithsonian Institution/Man and the Biosphere Biodiversity Program international symposium on measuring and monitoring forest biological diversity: "Forest structure and diversity in an upper montane rain forest in northern Peru".
- 1994 Association of American Geographers Annual Meeting organized session in San Francisco, California: "Cultural landscapes in the central Andes: implications for biological conservation".
- 1993 Annual meeting, Association of American Geographers, Atlanta, Georgia.
- 1993 Neotropical montane forest symposium, New York Botanical Garden, New York: "Biogeography of Neotropical montane forests: a reappraisal of paradigms".
- 1992 Tenth National Biological Congress, Lima, Peru: "Biogeografía y conservación de los bosques montanos tropicales" and "Fitogeografía del Perú: perspectivas y tareas para el futuro".
- 1992 Annual meeting, Association of American Geographers, San Diego, California.
- 1991 Association of American Geographers Annual Meeting organized session in Miami, Florida: "Diversity and conservation of plants on the eastern slopes of the Peruvian Andes".
- 1990 Association of American Geographers Annual Meeting organized session in Toronto, Ontario: "The roles of forest disturbances at a tropical timberline".
- 1983 Association for Tropical Biology, Annual Meeting, Grand Forks, North Dakota.

Other (selected)

- 2019 Invited speaker, Kaskaskia Valley Audubon Society, Red Bud, IL: "Climate change: A perspective from the tropics".
- 2019 Invited speaker, Geography program, Catholic University, Lima: "Adaptaciones socio-ecológicas en los paisajes posglaciares" (Socio-ecological adaptations in postglacial landscapes).
- 2017 Universidad Nacional Santiago Antúnez de Mayolo, Huaraz, Peru, "Cambios en la biodiversidad y los ecosistemas de los Altos Andes" (Biodiversity change in high Andean ecosystems).
- 2015 Universidad Nacional Micaela Bastidas de Apurímac, Abancay, Peru, "Cambios en los bosques andinos" (Change in Andean forests).
- 2014 Environmental office of U.S. AID, Lima, Peru: "Biodiversity conservation under climate change: the Andes Mountains of Peru".
- 2013 Academic Affairs Committee of the Liberal Arts Council, Research Fair on UT-Austin campus, "Policy-relevant Research".
- 2013 Master's program, Universidad Nacional Mayor de San Marcos, Lima, Peru, "Consecuencias ecológicas del cambio climático en los Andes: Implicaciones

- para la restauración ecológica” (Ecological consequences of climate change in the Andes: Implications for ecological restoration).
- 2013 GEELO (Geological Energy and Environmental Leadership Organization), University of Texas at Austin, “Climate change, people, and mountains: Glacial recession in the Andes”.
- 2012 Museo de Historia Natural, Lima, Peru, “La biogeografía del futuro”.
- 2012 Universidad Nacional de Santiago Atunéz de Mayolo, Huaraz, Peru, in conference entitled “Cambio climático: Glaciares, ambientes y vulnerabilidad social”.
- 2012 Master’s program, Universidad Nacional Mayor de San Marcos, Lima, Peru.
- 2012 Campus Environmental Center, UT-Austin, TX.
- 2012 Wildlife Conservation Society, Lima, Peru
- 2012 Group for the Analysis of Development (GRADE), Lima, Peru
- 2012 National Program for Protected Areas (SERNANPE), Lima, Peru
- 2011 Engineers without Borders, Austin, TX.
- 2007 Graduate program, Universidad Nacional de la Amazonia Peruana, Iquitos.
- 2006 U.S. Section meeting of U.S. Geological Survey and Pan American Institute of Geography and History, Austin.
- 2006 Catholic University of Peru, Lima.
- 2005 Ministry of Transportation and Communications, Lima, Peru.
- 2005 Biology, University of San Marcos, Lima, Peru.
- 2005 CONVEAGRO, Lima, Peru, “Cambios climáticos y sociedad”.
- 2005 DESCO, Huancavelica, Peru, “Cambios climáticos y sociedad”.
- 2005 Biology, Universidad Nacional de Huancavelica, Huancavelica, Peru, “Plantas endémicas del Perú”.
- 2005 Municipality of Pampas, Huancavelica, Peru, “Plantas endémicas del Perú”.
- 2004 Introductory speaker for Amazon Week panel, University of Texas at Austin: “Introducing the Amazon: Regional and local contexts for Adapting to Change”.
- 2003 Panel speaker for Amazon Week, University of Texas at Austin: “Frontier myths from the Amazon”.
- 2002 Invited visiting professor for Organization of Tropical Studies course on Ecology of Amazonian Forests, talk on “Ecología vegetal de los bosques montanos del Perú”.
- 2002 Workshop on “Latin American workers in dictatorship and democracy: The challenge of globalization, 1980-2002”, University of Texas at Austin, as a discussant.
- 2002 Botany, San Marcos University, Lima, Peru.

- 2001 LLILAS Fellow Speaker Series, University of Texas at Austin, "Shifting the focus in drug policy: coca/cocaine impacts in Peru".
- 2000 Integrative biology, University of Texas at Austin: "Andean forests: towards a theory of deforestation".
- 2000 Kaskaskia Valley Audubon Society, Illinois.
- 1999 University of Texas at Austin, Department of Geography Colloquium Series, "Protected landscapes in the tropical Andes".
- 1999 Workshop on biodiversity impact of ENSO, Consejo Nacional de Ciencia y Tecnología in Lima, Peru: "Estudios de la dinámica de vegetación: retos y oportunidades en relación al ENOS".
- 1999 Zoology, University of San Marcos, Lima, Peru.
- 1999 Biology, University of San Marcos, Lima, Peru.
- 1997 Workshop on the cultural and biological diversity of Andean rainforests (DIVA) in San Pablo del Lago, Ecuador: "Bosques andinos".
- 1997 Zoology, University of San Marcos, Lima, Peru.
- 1997 Peruvian Association for Nature Conservation, Lima, Peru.
- 1997 Peruvian Ecological Congress, Lima, Peru.
- 1997 Agronomy, Tingo Maria National Agrarian University, Tingo Maria, Peru.
- 1997 Biology, University of San Andres, La Paz, Bolivia: "Amenazas a la diversidad florística en el Perú: el caso de la coca".
- 1996 Geography, University of Nebraska-Lincoln: "Tropical timberlines".
- 1996 Biology, Catholic University of Quito, Ecuador.
- 1995 Botany, San Marcos University, Lima, Peru.
- 1995 Marie Selby Botanical Garden, Sarasota, FL.
- 1995 Botany, Catholic University of Quito, Ecuador.
- 1994 Geography, Pennsylvania State University.
- 1994 Zoology, San Marcos University, Lima, Peru.
- 1993 National herbarium, Quito, Ecuador.
- 1992 Rio Abiseo National Park Symposium, Lima, Peru: "Una perspectiva dinámica de la vegetación del Parque Nacional Río Abiseo".
- 1992 Geography, University of Maryland Baltimore County.
- 1992 Field Museum, Chicago, IL.
- 1992 Biology, Aarhus University, Aarhus, Denmark.