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CRIST Department of Biology, 212 Pearson Hall Miami University, Oxford, OH 45056 thomas.crist@miamioh.edu education 1982 BA Biology, Macpherson College, MCPson, Yale University, Forestry and Environmental Studies, New Haven, CT 1990 PhD Biology ecology, Utah State University, Logan, UT Professional Experience 2015-University of Miami, Oxford, OH 2011-15 Director, Institute of Environment and Sustainability - University of Miami, Mimiya Center, University of Miami, University of Oxford, Evolution and Environmental Biology, University of Miami, University of Oxford, Oxford OH 2009 - Institute of Environment and Sustainability Faculty Affiliate, University of Miami, Oxford OH 2003-04 Interim Director, University of Miami, Oxford OH 2000-05 Associate Professor of Zoology, University of Miami, University of Oxford, Associate Professor of Zoology, Oxford 299-00, University of Oxford Miami, University of Oxford 1990-94 Postdoctoral Associate, Colorado State University Department of Biology, Ft Collins 1985-89 Assistant Professor, Department of Biology, Utah State University, Logan UT 1984-85 Research Engineer, Yale University, New haven, CT 1983-84 Yale University Department of Chemistry Teaching Assistant, New Haven CT 1983 Research Engineer, Connecticut Agricultural Experiment Station, New Haven CT Professional Society Ecology Society International Landscape Ecology The University of Miami 2014 Altman Fellow of the 2016 Distinguished Association Award, Center for the Humanities, Rapid Response Team Selected for the University of Miami 2012, Fellow of the American Ecological Society 2002 Institute of Environment and Sustainability, University of Miami 1995 Best Landscape Ecology Best Publication, International Association of Landscape Ecology, KA With and TO Crist. Ecology 76:2446-2459. (Citation &t; 400 times) 1982-84 Academic Scholarship, Yale University 1982 Graduation Magna Cumlauda, Macpherson University Research Benefits Impact of Land Use on Biodiversity Insect Plant Interaction Environmental Impacts in Population and Community Environmental Analysis and Modeling Animal Movement and Spatial StructureScience h-Index = 39, &t; 6,300 citations; Google S collar h index = 51, &t; 9,700 citations) Peer-reviewed journal article Peebles Spencer, JR, DL Gorchev and TO Christo. in the press. The effects of invasive shrubs, Ronisera maacchii, Genesis herbivores and osigasis affect the plant community composition of forest floors. Forest Ecology and Management Keene, B, FR Castelli, H Davies, Tochrist, NG Solomon. in the press. Effects of avpr1a long multi-type on male social behavior and reproduction in semi-natural populations of the prairie (micrologaster). Ethnology. Campbell, Khoo and To Crist. 2017. 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Granivory in shrub step ecosystems: interaction between ant foraging and native seed patches (BSR-8715176).\$6,000 (Paper Improvement Grant, Advisor JA McMahon). University of Miami Internal Grant Funding Technical Fee Competition Award. 2009. Interactive computer modeling for environmental biology students. (PI-TO Christo and 11 faculty participants). \$38,412.University of Miami President Academic Enrichment Award 2006. Human-dominated ecosystem ecology: Integrating the University of Miami into a national network for research and education. \$209,499. (A total of 37 faculty members lead the PI-TO Christo). University of Miami Faculty Research Committee, 2002. Theoretical and field studies to link the effects of species loss and substitution in fragmented landscapes. \$20,209 (including 1-yr RA). (PI-TO Crist). Learning Technology Strategy Improvement Project 2002. Enhanced ecological education: modeling and modeling processes in undergraduate and postgraduate curricula (PI-JT Oris, CoPIs-MJ Gonzalez, MJ Vanni, TO Crist). \$34,950.Ohio Board of Regents, Research Challenge Program. 2000. Effects of Forest Management Practices on Forest Biodiversity\$7,628. (PI-TO Christo) University of Miami Faculty Research Committee, 1998. Regional and regional biodiversity of forest canopy insects in eastern deciduous forests \$14,257 (including 1-yr RA). (PI-TO Christo) Ohio Board of Regents, Research Challenge Program. 1998. Biodiversity of forest canopy insects in forest habitats in southwestern Ohio \$9,880. (PI-TO Christo) University of Miami Faculty Research Committee, 1994. Experimental assessment of the effects of habitat fragmentation on biodiversity \$17,610 (including 1-yr R.A.). (PI-TO Crist) Invitation seminars, workshops and symposiums Spatial scaling of biodiversity in agricultural landscapes International Association for Landscape Ecology, World Congress, Portland Oregon, July 2015. Biodiversity in agricultural landscapes: farms, fencerows, fragments. In March 2013, he was in the Department of Ecological and Evolutionary Biology at the University of Tennessee at Knoxville. Biodiversity of insects in agricultural landscape mosaics January 2011. Department of Biological Sciences, Bowling Green State University. Insect biodiversity in intensively managed farmland: the role of crops and non-crop areas. Speaker and workshop participant Biodiversity Loss: What is the latitude of action in the agricultural landscape? Boundary dynamics beyond the edges of forest crops: the effects of beneficial insects on biodiversity. Wright State University, October 2010 Diversity division as a framework for multiscale analysis of beta diversity. Speakers and working group participants, β-diversity patterns, analyses, and mechanisms synthesis along ecological gradients November 2009, Santa Barbara National Center for Ecological Analysis and Synthesis. Diversity of beetles, boundaries and betas: a change in perspective on multiscale patterns of biodiversity. University of Pittsburgh, September 2009 Habitat fragmentation in farmland, habitat heterogeneity, plant-insect interaction. Participants in landscape heterogeneity and biodiversity on farmland at the National Reschelleche Scientific Centre in Montpellier, France, in March 2009. Beyond terra diversity and isolation: habitat boundaries, habitat heterogeneity, and how scale affects insect diversity in habitat fragments. Texas State University, San Marcos, March 2009. Multiscale patterns of habitat heterogeneity, boundary dynamics and insect biodiversity. Department of Entomy, College Park, University of Maryland. April 2008. Beta diversity as a unified framework for landscape and meta-community ecology. Department of Animal Ecology, University of Justus Liebig, Giessen, Germany, February 2008. A hierarchical perspective on biodiversity in fragmented habitats: Are we looking at forests and trees? Multiscale reasonsBiodiversity issues for ecology and conservation: insights from insects in fragmented habitats. Department of Biological Sciences, Bowling Green State University, October 2007. The new role of beta diversity in understanding biodiversity in human-changed landscapes. School of Ecology, Swedish University of Agricultural Sciences, Uppsala, Sweden, September 2007. Additional compartmentalization of diversity in fragmented habitats. Speakers and workshop participants, predicting biodiversity loss in fragmented habitats using species traits, funded by the European Union, project COCONUT. In the Lira Mountains, Bulgaria, September 2007. The role of habitat connectivity in the migration and distribution of organisms. A symposium on the role of science in multi-species habitat conservation planning organized by the Conservation Biology Center at the University of California, Riverside, Palm Springs, CA, May 2007. From habitat fragmentation to spatial heterogeneity: a new approach for understanding changes in biodiversity in landscapes where humans have changed. Habitat Fragmentation Symposium: Ecological Impact on Management Austin Pea State University, Field Biology Center, Clarksville TN, March 2007. Meta-community theory and insights from diversity division: towards a new understanding of patterns of species diversity across multiple scales. Colloquium in Life Sciences, Colorado State University Department of Biology, Fort Collins, February 2006. Scale Dependency in Beta Diversity between Open Communities: Insights from Additive Diversity Partitions. In August 2005, he held an augaral session of the American Ecological Society of Montreal, Quebec. Patterns of alpha and beta diversity within the region: measurement and testing beyond space and time. Keynote speech to the Electronic Conference on Landscape-Scale Biodiversity and Scaling Issues. European Platform for Biodiversity Research Strategies, Budapest, Hungary, April 2005. Revisiting the relationship between species and regions: Does habitat explain species diversity? Reinventing the relationship between species and regions: dividing the effects of habitat size and landscape heterogeneity on biodiversity. University of Akron, April 2004 Does the loss or replacement of species determine patterns of insect biodiversity in fragmented landscapes? Spatial structure of landscape and regional biodiversityThis lecture, European Conference on Biology, Biodiversity in Cultural Landscapes, Justos Liebig University, Giessen, Germany, December 2002 Biodiversity of insect regions and regions in fragmented forests. In November 2002, he was in the Department of Biological Sciences at Wright State University, Dayton. Do we see forests for trees? October 2002 Department of Entomy, Texas A&M University, Spatial non-interactive approach to scaling: dynamics in place. In August 2002, he presented a symposium on the American Ecological Society, Tucson, and AR. Spatial analysis and simulation approaches to scaling environmental patterns and processes. In April 2002, he presented a symposium at the International Association for Landscape Ecology (NE). Dividing species diversity between scales: insights into local and regional patterns of biodiversity in forest insects. Presentation of a symposium at the American Endology Society in the United States, Michigan State University, March 2002. Landscape variation of distribution and abundance of insects living on the ground. In August 2000, he presented a workshop at the Snowbird of the Norbird of the Long-Term Ecological Research All Scientists Conference in the United States. Variations in the effects of animal disturbances on grassland soils: topography, grazing, and the role of the region. In August 2000, he presented a workshop at the Conference of All Scientists on Long-Term Ecological Research in Snowbird, Utah, USA. Landscape ecology, insect movement, population distribution. The American Entomological Society Quantitative Entomology Conference, National Conference, Nashville, December 1997 Insect movement in nature and experimental landscapes, population distribution, community diversity and the role of insects in the ecosystem of the range: a landscape perspective. October 1997 Department of Bio-Agricultural Sciences and Pest Management, Colorado State University. Insect reactions to landscape structures: their impact on population, communities and ecosystem processes. Department of Biology, University of Toledo, January 1997 Animal Responses to Landscape Structures: Impacts on Communities and Ecosystem Processes. Vanderbilt University Department of Biology, November 1996 Reaction to the landscape structure of insect individuals, populations and communities April 1996 Bowling Green State University Department of Biology. Relationship between migration, population distribution, and community interaction in terrestrial insects November 1994 Department of Entomotomy, Ohio State University. Hierarchical analysis of the movement, population distribution and community interactions of insects living on the ground. November 1994 Department of Biology, University of Dayton. Hierarchy and scale in semi-arid ecosystems: animal movements, population distribution, interaction with communities. In March 1994, he graduated from the Department of Zoo sciences at Southern Illinois University. Interaction between terrestrial insect populations and communities in semi-arid ecosystems February 1994 Department of Biological Sciences, Texas Tech University. Interaction between harvest ants and seeds in semi-dry environments. November 1991 Department of Zoo sciences, Louisiana State University. Hierarchical analysis of the movement of ants and beetles in shortgrass-long-term ecological research seminar series, Colorado State University, October 1991. From individual to community: harvesting ant interactions in semi-arid environments. October 1990 Department of Biology, Colorado State University. Contributed presentations to Mahon, MB and Christo. 2016. Responding to the removal of white-tailed deer and amur honeysuckles in the Oransimizuk. 2016. 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Interactions between ants and plants: effects of harvested ant colonies on vegetation spatial patterns. 1989. Effects of harvest ants on shrubland seed pools: relationships between seed use of seed resources. American Ecological Society, Toronto, Educational Experience Basic Ecology at the University of Miami (BIO 209, 3 credits, 1995, 1997, 1999, 2000, 2001, 2002, 2004, 2017) Invertebrates (BIO 312, 4 credits/lab, 1995, 1996, 1997, 1999, 2000, 2002, 2003, 2006, 2008, 2009, 2010, 2011) Field Ecology (BIO/MBI 333, 2 Credits, 2010) Population Ecology (Zoo 66, 190, 190/ 19/ Lab 1996, 1998) Population and Community Ecology (BIO/MBI 671) , 4 Credits. Henry Stevens and Team Teaching, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2015, 2016) Environmental Problem Solving (IES 611, 1 Credit, 2011, 2012, 2013, 2014) Field Methods of Population Ecology (Bot/Zoo 437/537, 1 Credit, Taught in Teams with Dave Gorchev, 2000, 2001, 2003, 2005, 2005, 20 07) Contemporary Issues of Biodiversity (Zoo 400, 3 Credits, Team Teaching with Tom Wishing, 1997) Home Planet: Environmentally Challenged World Food, Health and Habitats (AMS 405/IES 440, 3 Credits, taught in teams with Peggy Shaffer), Altman Program in Entroposens 1996) Animal studies seminar on ecological modeling Zoo 491, 1 Credit, Jim Oris and Team Guidance) Zoology Seminar on Biodiversity (Zoo 491, 1 Credit, 2006) Landscape Ecology and Habitat Fragmentation (Zoo 710. A, 1 credit, 1995) Managed Landscape Biodiversity (Zoo 710. A, 1 credit, 1999) Movement of organisms in human variant landscapes (Zoo 710.A., 1 credit, Team Teaching with Nancy Solomon and Rob Blair) Meta Community Ecology (Zoo 710.A) 1 Credit, 2006) Biodiversity in agricultural landscapes (Zoo 710. A, 1 Credit, 2010) Topics of Environmental Science (IES 620, 1 Credit, 2012, 2014) Principles and Applications of Guest Lectures (IES 431/531, 2002-2012) Environmental Measurement (IES 411/511, 2000-2002, 2013) Guisience and Landscape Ecology (GEO 467/567, 2007-2009, 2011, 2012) Field Ecology (BIO/MBI 333, 2011-2015)- Vertebrates (Z214, 4 Credits w/Lab, 1992) Sinalogy (EY501, 4 Credits, Team Teaching with Dan Binkley, 1994) Graduate Students and POSTDOCS - Department of Advisors in Biology and Ecology, Evolutionary and Environmental Biology, University of Miami David M. Golden, MS (1995) Sarah L. Duziak MS (2007) David J. Stasek, MS (2006), Ph.D. (2010) Bradley S. Schroeder, MS (2007) Alyssa Hu, MS (2012) Jason M. Nelson, (MS12, Thomas MS (ongoing) Dr. Jonathan C. Gelling (2001) Keith S. Somerville, Ph.D. (2002) Caitlin Uppström Campbell, Ph.D. (2015) Dr. Michael Minnick (ongoing) Dr. Michael Mahon (in progress) Dr. Joseph A. Veech (2001-02) Kyle J. Haynes, Postdoctoral Fellow (2004-2006) Tim Diether, Postdoctoral Fellow, Germany (2004-2005) Valerie E. Peters, Postdoctoral Fellow (2012-2015) Hannah J., Postdoctoral Fellow (2016) Institute for Environment and Sustainability, University of Miami Sharmila Pradhan, MEn (2002) Research Advisor Lisa M. Ritter, MEn Cesis Advisor Catherine R. Groom in (2002), Meng (2003) Internship Advisor Caleb Sremmonds, Meng (2005) Internship Advisor Jonathan Sorgue, Meng (2005) Internship Advisor Alicia Glover, Meng (2010) Internship Advisor Jonathan Lee, MEn (2010) MEn (2013) Practicum Advisor Marion Wells, MEn (2013) Internship Advisor Mitch Olto, MEn (2013) Practicum Advisor Penny Felner, MEn (2014) Tessys Advisor Jeffrey Wedgeworth, MEn (2014) Internship Advisor Michelle Barrett (2) 014) Practicum Advisor Gina Credito, MEn (2015) Practicum Advisor Matthew Hallett, MEn (Ongoing) Tessis Advisor Sarah Rogers, MEn (In Progress) Practicum Advisor John Reeves, Mean (Ongoing) Cecis Advisor Graduate Student - Committee Member for Biology University of Miami MS - Valerie Bennett, Jennifer Everts, Jeff Och, Jonathan Gelling, Ryan Stander, Valerie Thiess, James Hood, Julie Whipkey, Joe Riari, Shasta Buck Colleen Winstead, Shaun Higgins, Karen Sigler, Chris Bellas, Sean Wilder, Chip Graholt, Leslie Penfield, Lindsay Rowland, Samancia Noble, Molly Mailling, Catherine Williams, Mike Ehnitsky, Greg Marcello, Leah Lorch, Lysette Torres, Jennifer Reem, Jason Kevan Minnick, Ally Bubbler, Holly Paglis, Mia Hall, Jorge Lassas, Melanie Link-Perez, Jeremy Ashe, Lindsay Heck, Claire Larkin, Peter Guiden, Angela Klintzall, Terra Ratliff, Owen Patterson, Adam Patterson Parlin, Kyle Martinod, Dr Gabrielle Rees - Joe Jacott, Kata Gruski, Alan Christian, David Mvola, Mark Spritzer, Marty Hogan, Christine Anderson, Alberto Piliati, Amy Monroe, Jennifer Parlansage, Kelly Lynn, Greg Marcello, Jason Schmidt, Andrew Tucker Tammy McPeak, Nicole Hayes, Rafael Herrera-Herrera, Evan Notman, Stacey Edmonds Wheeler, Brian Endless, Anne Bartucheviege, Diana Christensen, Eric Berry, Zanic Landon, Wei Lei, Jennis Baumann, Castellano, Maaymay Lynn, Jessica Peebles, Samantha Ramschlag, Kentaro Inoue, Mohammed al-Safar, Michael Sitvarin, Jane Baer, Joseph Baumgartner, Amber Locke, Kentaro Inoue, Melissa Youngquist, Sinzini Goswami, Anseleno Davis, Steve Hein, Mason Murphy, Courtney Dvorsky Department of Microbiology, University of Miami (EEEB) - Wey Ray Department of Geography, University of Miami MS - Joseph Mukeka, Meghan Sheehan, Ph.D. (EEEB) - Mei Mei Lin Institute for Environment and Sustainability Renee Maxfield, Lisa Jin, Annette Souder, Daryl Obenur, Jacob Masood, Suzanne Byler, Sarah Peterson, Andrew Pilling, Christine Shreve, Jacquelyn Paulick, Jeremy Kite, Lori Kelly, Lindsay Stone, Angela Defenhou, Elizabeth Downes, Rachel Day, Christine Lartz, Justin Hoffer, Alexa Mainella, Amy Sturtz, Catherine Louvda, Jenna Tiller University, Cincinnati, Department of Biology - PhD - External Examiner Meghan Lamkin for PhD students - University of Sydney - University of Sydney, Australia (2004) Undergraduate Research Faculty mentors more than 40 undergraduate research projects, Some of the results in publications and presentations. Professional Services Advisory Board Member and Chair of Academic Affairs, Macpherson College, Macpherson, KS, March 2013 - Current Editorial Board Ecology and Environmental Frontiers (Impact Factor 9.1), 2010-2016 Insect Conservation and Diversity (Impact Factor 2.8), 2011-2014 Ecology Letter (Factor 10, 7), 2006-2011 Landscape Ecology (Impact Factor 3.5), 2005-2009 Peer Review Journal Article - More than 400 manuscripts for the following journals: Public Library of Science ONE, Letters of Ecology, American Naturalists, Ecology, Ecological Applications, Frontiers in Ecology and Environment, Conservation Biology, Proceedings of the Royal Society of London, Letters of Biology, Animal Ecology Journal, Journal of Ecology, Journal of Applied Ecology, Landscape Ecology, Functional Ecology, Ecology, Oikos, Epography, Ecosystem, EcoScience, Evolution, Animal Behavior, Molecular Ecology, Ecology and Evolution, Behavioral Ecology, Restored Ecology, Biodiversity and Conservation, Biological Conservation, Diversity and Distribution, Geoecology and Biogeography, Journal of Biodegeneration, Journal of Biogeography, Journal of Vegetation Science, Basic and applied biology, landscape and urban planning, bio-invasion, ecological indicators, environmental toxicity and chemistry, mathematical and biological sciences, journals of insect conservation and diversity, environmental entomology, journal of agriculture and forest entomology, entomology society, journal of blood membrane science, journal of range management, forest science, journal, rainforest, journal, tropical ecology, granting proposals - Over 100 proposals National Science Foundation (Program: Ecosystem, Ecology, Population and Community Ecology, Population and Evolutionary Processes, Environmental Biology, Physiology and Behavior Long-Term Research, Biological Research and Inventory, International Program), U.S. Department of Agriculture (Program: Managed Ecosystem), Natural Science and Engineering Research Council (Canada), Ministry of Defense (Program: Strategic Environmental Research and Development), Natural Environment Research Council (UK), South African Foundation (South Africa) Edited Books - Chapters of 8 Books - External Review for 4 Book Review Tenures and Promotions - 10 Faculty members for promotion to associate professor or full professor at state and private universities for program review - Environmental Science Program, Wright State University, other professional activity panelists, Environmental policy: why the environment is for everyone, University of Miami Stamp Scholar Event, November 2016 Panelist Organizer Non-Academic Career for Ecologists, Midwest Ecological Evolution Conference, March 2016 Moderator, Oral Session on Conservation and Recovery, American Ecological Society, August 2014 Rapid Response Team Member of the American Ecological Society It provides science-based opinions on national public policy and media issues on the environment. Connecticut Post, Bridgeport CT (July 2013), KVMR-FM Nevada City CA (June 2013), Hamilton Journal News (October 2014), Bloomberg Businessweek (October 2014), Panel members, National Science Foundation, Population and Community Ecology Program, 2011, and 2012 Panel Members, National Science Foundation, Joint Panel of Evolution and Population Ecology, Population and Evolution Process Program and Ecology Program, Lead Author (NEON) on Requests for Information to the National Ecological Observation Network, Spread of Invasive Species and Infectious Diseases: Robert Parmenter and Todd Crohl, and 12 other scientists). It was submitted as part of continental scales connectivity consortium led by Debra Peters and consists of more than 50 scientists. January 2007. Moderator, Oral Session on Ecology, American Ecological Society, August 2002 Panel Member, USDA National Research Initiative, Ecosystem Science Program, 2000 Member, Nominating Committee, American Ecological Society, April 1999 Service to the Department of Biology (formerly Zoology Department), Faculty of Physiology Faculty Search Committee, 2008-2009 Chair/Ecosystem Ecology, 2006-2007 Faculty Advisory Committee (Promotion and Tenure), 2006-2011 Undergraduate Research Committee Member, 2005-2006 Curriculum Committee, 2004-2005 Chair, Ohio Ecologist Researcher Search Committee, 2003-2004 Graduate School Advisory Committee Chairman (Graduate Research Director), 2000-2003 Graduate School Advisory Committee, 1994-2000 Hefner Museum Committee, 2000 Hefner Course Committee, Department of Zoology Computer Facilities (E-mail, Email) Management Computer Room), 1997-2000 University of arts and Sciences Co-Chair, Global Research Implementation Committee, Fall 2014 Sustainability Scholars Program, University Academic Scholarship Program, Members, Ad Hoc Revenue Committee, 2012 Program Review Internal Team Members, Havighurst Russian and Post-Soviet Research Center, 2012-2013 Faculty Participants, Discovering Science, September 2012-2016, Environmental Council Environmental Council, Member, Promotion and Tenure Committee, Department of Geology, 2007-2008, Commission of Inquiry on the Position of Faculty in Geobiology, Department of Geology, 2007-2008 In 2003, Interim Director, Center for Ecology Research, 2003-2004 Member of the Joint Major Committee on Environmental Science, 2003-2004, Executive Committee of the Institute of Environmental Science, 1997-1999, 2006-2010 Members, Governance Committee, 2003-2004, Center for Ecology Research, 2009-2004 2004- Current Small Grant Committee, Ohio Biological Research Agency Representative, 1997-2001 Chair of University Committee, Natural Area Committee, 2016-2016 Natural Area Committee, 2009-2016 Chair of University Sustainability Committee, 2013-2016 Co-- Chairman of the 2012-13 Joint Energy Division Development Committee (2012-13), Representative of the Clean Energy Alliance at Ohio University, 2013-2014, Academic Program Review Committee 2005-2007 Member, Future Direction of Ecology and Environmental Science at the University of Miami, 2003-2004 Members, Search Committee for Directors of the Institute of Environmental Science, 2003-2004 Members, Natural Area Committee, 1995-Current Community Service Invitation Public Speaker, Earthfest Celebration, Oxford City Earth Day, Invited Public Speakers, Oxford Lane Library, November 2012, Cincinnati Nature Center, October 2011 Greater Cincinnati Chapter of the Wild Ones, January 2010 3 Valley Conservation Trust Biodiversity Assessment (Total of Baseline Assessments for Conservation Mitigation 8, 2007-2012) Research Mentor, Arawanda High School Student, Fall 2010 Guest Speaker, Collaboration with French Scientists, Honorary III Class of France, Carawanda High School, October 2010 Lead classes 3 and 4, 2007 and 2009 Career Day, Kramer Elementary School, 2001, 2003, 2005, 2006 Guest Teachers, 4th Grade Classes, Kramer Elementary School, What is ecosystem? October 2003 Kramer Elementary School and Science Olympic Jury, April 2005

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