

STUART JAMES DAVIES
Curriculum Vitae

March 2022

CURRENT POSITIONS:

Frank H. Levinson Chair in Global Forest Science

Director, Smithsonian Institution Forest Global Earth Observatory (ForestGEO)

Senior Staff Scientist, Smithsonian Tropical Research Institute.

Chief Scientist, Next Generation Ecosystem Experiment – Tropics, US Department of Energy

Adjunct Professor, Asian School of the Environment, Nanyang Technological University, Singapore

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EDUCATION:

1989-1996 Ph.D. Harvard University, Department of Organismic and Evolutionary Biology.
1982-1987 University of Sydney, Australia. B.Sc. (Honors) First Class.

EMPLOYMENT & APPOINTMENTS:

2016- Adjunct Professor, Asian School of the Environment, Nanyang Technological University, Singapore
2014- Chief Scientist, Next Generation Ecosystem Experiment – Tropics, Department of Energy supported program involving 5 National Labs, STRI and other partners
2012- Frank H. Levinson Chair in Global Forest Science. Senior Staff Scientist and Director, Forest Global Earth Observatory (ForestGEO), Smithsonian Tropical Research Institute, Smithsonian Institution.
2007-2012 Director, Asia Programs, Arnold Arboretum, Harvard University.
2005-2012 Director, Center for Tropical Forest Science – Smithsonian Institution Forest Global Earth Observatory, and Staff Scientist, The Smithsonian Tropical Research Institute.
2003-2005 Science Director, Center for Tropical Forest Science-Arnold Arboretum (CTFS-AA) Asia Program, The Arnold Arboretum, Harvard University.
2001-2003 Senior Research Associate, The Center for International Development, John F. Kennedy School of Government, and the Arnold Arboretum, Harvard University.
1997-2001 Associate Professor, Institute for Biodiversity and Environmental Conservation, Universiti Malaysia Sarawak, Malaysia.
1999-2001 Part-time Research Fellow, The Center for International Development and The Arnold Arboretum, Harvard University
1996-1997 Mercer Postdoctoral Fellow, The Arnold Arboretum, Harvard University.

- 1991-1996 Research assistant, Lambir Hills National Park, Sarawak, Malaysia. Assisted with establishment of 52-ha Long-Term Ecological Research plot, and herbarium and laboratory facilities (with Center for Tropical Forest Science, Smithsonian Tropical Research Institute).
- 1993-1994 Predoctoral Research Fellow, University of Brunei Darussalam
- 1991 Research assistant, plant taxonomy, Harvard University.
- 1990 Research assistant, plant ecology, Harvard University.
- 1987-1989 Research assistant (full-time), National Herbarium, Royal Botanic Gardens, Sydney, Australia. Taxonomic revisions and computer-based flora research on *Acacia* (Fabaceae).

GRANTS, FELLOWSHIPS AND AWARDS:

Funded/Awarded:

- 2022 Chris Davidson: Matching-fund commitment to develop endowment for "*ForestGEO: African Forest Science Capacity Building Initiative*" (\$100,000, pending)
- 2022 Stapper Family. "*Capacity Building Program for ForestGEO early-career scientists: J & J Ruinen Fellowship in Tropical Forestry*". PI. (\$50,000, funded March 2022)
- 2021-25 National Science Foundation Award #2020424. "*AccelNet: International Tropical Forest Science Alliance (ITFSA): A global multi-network science and training*." PI. (\$1,999,818).
- 2021 Microsoft Philanthropies. "*Data management tools for a program in global forest science*" PI. (\$4,000)
- 2021 Stapper Family. "*Capacity Building Program for ForestGEO early-career scientists: J & J Ruinen Fellowship in Tropical Forestry*". PI. (\$50,000, funded March 2021)
- 2020-24 Next Generation Ecosystem Experiment-Tropics (NGEE-Tropics) Phase 2 proposal; Department of Energy. PI. (\$2,088,650; funded March 2020).
- 2019 Stapper Family. "*Capacity Building Program for ForestGEO early-career scientists*". PI. (\$50,000, funded July 2019)
- 2019 Chris Davidson Gift: "*Building Long-term Sustainability of Forest Science in Africa Through Training and Capacity Building*" PI. (\$10,000).
- 2018-2020 Mars Award for ForestGEO Research in Nebraska (\$250,000, January 2018)
- 2018 Chris Davidson Gift: "*Building Long-term Sustainability of Forest Science in Africa Through Training and Capacity Building*" PI. (\$10,000).
- 2018-2020 International Forest Biomass Network, European Space Agency PI. (\$45,898; funded January 2018)
- 2017-2019 German Center for Integrative Biodiversity Research (iDiv). "*Beyond the growth-survival trade-off: A global analysis of demographic diversity and trade-offs in species-rich forests*" €14,000 plus 2-yr post-doctoral salary; PI: N. R ger; co-PIs C. Wirth, H. Bruelheide, W.S. Harpole, S.J. Davies & S.J. Wright
- 2016-20 National Science Foundation: EF-1638488 "*Collaborative Proposal: Forest function from genes to canopies: disentangling the fine scale spatio-temporal variation in gene expression and tree growth*." PI: N. Swenson, co-PIs: S. McMahon, S.J. Davies. (\$965,280. start date: 12/15/2016)
- 2015-19 Next Generation Ecosystem Experiment-Tropics (NGEE-Tropics) Phase 1 proposal; Department of Energy PI. (\$1,325,000; funded April 2015)

- 2016-18 National Science Foundation: Dimensions of Diversity IRCN: DEB-1545761: Dimensions US-China: Integrating functional, phylogenetic and genetic components of diversity for an improved understanding of forest structure, dynamics, and change. PI, with co-PIs: H. Muller-Landau, N. Swenson, L. Comita & F. Jones (\$296,240, funded September 2015; start date of 01/01/2016)
- 2016-18 NASA HQ grant: “*Scoping study for biodiversity airborne campaigns*”. Principal Investigator (PI): David Schimel, Co-investigators: F. Davis, S.J. Davies. (\$231,490, funded August 2016)
- 2016-17 NASA HQ grant: “*Workshop on Calibration and Validation of Upcoming NASA and ESA Satellite Missions on Forest Structure and Biomass*”. Principal Investigator (PI): Sassan Saatchi, Co-investigator: S.J. Davies. (~\$40,000)
- 2015-16 International Forest Biomass Network, European Space Agency PI. (\$82,163; funded July 2015)
- 2015 Consortium for Understanding and Sustaining a Biodiverse Planet, Smithsonian Institution. Grand Challenges Level One Award: “*New Arthropod Database System for ForestGEO*”. PI (\$14,000)
- 2015 Chris Davidson Gift: “*Building Long-term Sustainability of Forest Science in Africa Through Training and Capacity Building*” PI. (\$10,000).
- 2014-15 Next Generation Ecosystem Experiment-Tropics (NGEE-Tropics) year 1-phase 1 proposal (\$200,000, funded October 2014)
- 2014-15 Conservation International-TEAM initiative: “*The Tropical Ecology, Assessment and Monitoring (TEAM) Network: one year census grant for 2014-15*”. PI. (\$160,000)
- 2014-15 Consortium for Understanding and Sustaining a Biodiverse Planet, Smithsonian Institution. Grand Challenges Level Two Award: “*Quantifying herbivory from multiple ungulate species in a complex tropical forest*”. PIs: W.J. McShea, D.L. Erickson & S.J. Davies (\$50,000)
- 2013-14 Bromley Charitable Trust “*Building Long-term Sustainability of the CTFs-Asia Program through Training and Capacity Building*” PI (\$25,000)
- 2013-14 Conservation International-TEAM initiative: “*The Tropical Ecology, Assessment and Monitoring (TEAM) Network: one year census grant for 2013-14*”. PI. (\$260,000)
- 2012-13 Bromley Charitable Trust: “*Building Long-term Sustainability of the CTFs-Asia Program through Training and Capacity Building*” PI (\$50,000)
- 2012-14 Gregory D. and Jennifer Walston Johnson gift for ForestGEO’s work on the conservation of America’s forests (\$45,000)
- 2012-13 Consortium for Understanding and Sustaining a Biodiverse Planet, Smithsonian Institution. Grand Challenges Level One Award. “*Capturing Genomes for Biodiversity Research: Workshop*” Co-PI (\$20,000)
- 2012-14 Consortium for Understanding and Sustaining a Biodiverse Planet, Smithsonian Institution. Grand Challenges Level One Award. “*Smithsonian in China: Symposia and Interviews for Vision and Strategy*” Co-PI (\$20,000)
- 2012-14 Conservation International-TEAM initiative: “*The Tropical Ecology, Assessment and Monitoring (TEAM) Network: Transforming Data to Knowledge and Informing Conservation Policy and Action*”: co-PI (Full Grant: \$2.48 million; STRI subaward: \$452,268)
- 2012-13 John Swire & Sons (Australia): “*The Swire Papua New Guinea Rainforest Study: The Wanang Conservation School: Community development through education and forest conservation*” in Papua New Guinea” PI (\$250,000)
- 2012-13 HSBC Brunei: Completion of the Kuala Belalong 25-ha plot (\$100,000).

- 2011-15 National Science Foundation: DEB-1046113. Dimensions of Diversity IRCN: “*Diversity and forest change: Characterizing functional, phylogenetic and genetic contributions to diversity gradients and dynamics in tree communities*” PI, with co-PIs: R. Condit, J. Kress, H. Muller-Landau, N. Swenson, L. Comita & F. Jones (\$631,640). Grant has partial matching funding through NSF-China.
- 2011-15 HSBC Hong Kong: Participated as external collaborator for HSBC-Hong Kong Foundation award of \$1 million to Hong Kong University for the development of a Hong Kong Global Forest Observatory site.
- 2011 Bromley Charitable Trust: “*Building Long-term Sustainability of the CTFS-Asia Program through Training and Capacity Building*” PI (\$50,000)
- 2010-22 Smithsonian federal allocation to expansion of the Smithsonian Global Earth Observatory (CTFS) network. Ongoing annual federal allocation, co-PI with STRI Director (\$2,143,000)
- 2010-11 Encyclopedia of Life Rubenstein Fellowship to David Kenfack. “*Development of EOL species pages for a diverse tropical African tree species*” co-PI with David Kenfack & John Kress. (\$43,000)
- 2010 Bromley Charitable Trust “*Building Long-term Sustainability of the CTFS-Asia Program through Training and Capacity Building*” PI (\$50,000)
- 2009-10 Conservation International-TEAM initiative: “*Vertebrate Monitoring in Tropical Rainforests*” PI (\$377,299)
- 2008-11 John Swire & Sons (Australia): “*Swire PNG Rainforest Study (SPRS)*” to establish 50-ha plot in Papua New Guinea: PI (\$250,000)
- 2007-11 Hong Kong Shanghai Banking Corporation: “*HSBC Climate Partnership: Climate Change and Tropical Forests*” co-PI with E. Bermingham (\$8,000,000)
- 2008-10 HSBC Brunei: “*Partnership for Monitoring Climate Change Impacts on the Forests of Brunei Darussalam between HSBC Bank, KBFSC-UBD & CTFS-STRI*” PI (\$336,700)
- 2004-10 Frank Levinson Family Foundation: “*Global Forest Observatories*” co-PI with I. Rubinoff and E. Bermingham (\$5,000,000 with annual resubmission)
- 2006-10 United Nations Development Program-Global Environment Facility: “*Conservation of Biological Diversity Through Improved Forest Planning and Management Procedures*” co-PI with J. Vincent, Duke University, M. Potts, Berkeley, and P.S. Ashton & W. Bossert, Harvard. Research collaboration with Forest Research Institute of Malaysia (GEF \$2.261 million, ITTO \$558,000)
- 2003-5 National Science Foundation: NSF-Biotic Surveys Program DEB-0315985: “*Botanical Diversity and Biogeography of Southern Thailand*” PI with D. Middleton (\$220,000)
- 2002 National Geographic Society: “*Botanical surveys of Peninsular Thailand*” co-PI with D. Middleton (US\$20,000)
- 2001-2 United Nations Development Program-Global Environment Facility: “*Conservation of Biological Diversity through Sustainable Forest Management Practices in Malaysia*”. Planning Grant: Collaborative research project with the Forest Research Institute Malaysia, co-PI with P. Ashton, K.D. Singh & W. Bossert (US\$192,000).
- 2001 AVINA foundation: “*The Panama Native Forest Conservation and Restoration Project (PRORENA)*” co-PI with P. Ashton (US\$20,000).
- 2000-2002 National Science Foundation: NSF-LTREB: DEB-0075334 “*Plot recensus in Tropical Forests of Asia, to Generate Data on Dynamics and Species Demographies*” co-PI with P. Ashton (US\$118,000).

- 1997-2000 Malaysian National Science Funding - Intensification of Research in Priority Areas (IRPA): "*Rain forest succession in Sarawak: An integrated study of the factors controlling the regeneration and rehabilitation of degraded forests using landscape, community and species-level studies*" PI with I. Ipor (MYR\$394,000 = US\$100,000).
- 1996-1997 Fund-raising through ecotourism study tours in Malaysian Borneo (US\$70,000). Money used to establish fellowships for US and Malaysian student research in Malaysia, and to fund UNIMAS Biodiversity Field Course.
- 1996-1997 Mercer Post-Doctoral Fellow, Harvard University.
- 1995 Certificate of Distinction in Teaching, Harvard University.
- 1993-1994 Pre-doctoral Research Fellow, University of Brunei Darussalam.
- 1992 Deland Award for tree biology research, Harvard University (US\$5,000).
- 1991 Richmond grant for studies in biology, Harvard University (US\$4,000).
- 1990 Monsanto natural product discovery grant, with P.S. Ashton (US\$3,500).
- 1987 Ilma Brewer Prize for Biology Honors, Sydney University.
- 1986 G.S. Caird Scholarship for Botany, Sydney University.

TEACHING AND STUDENT SUPERVISION:

- 2020-2022 Co-supervision of University of Notre Dame, Ph.D. students: Logan Monks (evolutionary ecology of SE Asian forests), Vanessa Rubio (tropical seedling ecology, Ecuador).
- 2015-2020 Co-supervision of University of Maryland, Ph.D. students: Krittika Petprakob (southern Thai forests), Natalia Umaña (forest functional trait variation).
- 2018- Annual guest lecturer. Senior ecology course. Asian School of the Environment, Nan Yang Technological University (on hold due to Covid-19).
- 2010-2022 Led organization and mentoring of annual ForestGEO Analytical Workshops funded by NSF, with co-funding from NNSF-China grant to Chinese Academy of Sciences and other international partners. These workshops have involved hundreds or early-career scientists from all countries in the ForestGEO network.
- 2016- Co-supervision of UNIMAS, Sarawak, Malaysia, Ph.D. student: Mohizah Mohamad (forest composition and dynamics).
- 1998-2015 Co-supervision of Harvard Ph.D. students: Thomas Powell (Amazon forest drought response, defended 2015), Swee Peck Quek (Ant evolution in *Macaranga* myrmecophytes, graduated 2004), Xiaobi Shirley Dong (Carbon flux in Asian tropical forests, graduated 2011), Janice Chan (Asian forests, graduated 2015).
- 2000-2009 Field supervision of Harvard undergraduate students in Asia: Alex Waters (2001), Beth Zotter (2000), Tzyy Yeh (2000), Oliver Soong (2004), Pien Huang (2005), Shirleen Soh (2005), Megan Bartlett (2008-9).
- 2007-9 Lecturer and co-organizer of the Arnold Arboretum-Harvard Summer School course "*Biodiversity of Borneo*" with Cam Webb.
- 2003-8 Lecturer and co-organizer of the annual CTFS 'International Field Biology Course' based at CTFS plots in South and Southeast Asia.
- 2005 Lecturer in Harvard freshman class Environmental Science and Public Policy: classes dealing with tropical forests, management and policy.
- 2002-3 Undergraduate supervisor (with P. Moorcroft) for Oliver Soong, for analysis of plot data using Ecosystem Demography model.
- 2002 Lecturer in Masters in International Development course PED 142: Development in Practice: Lessons from the Field. Kennedy School of Government, Harvard University. Subtopic: Environment and Sustainable Development.

- 2002 Field supervisor for Masters of Public Administration, Harvard University, students on study tour of Forestry Sector in Malaysia.
- 1997-2002 Graduate Advisor of seven UNIMAS M.Sc. students: Rashidah Hashim (Long-term succession in degraded ecosystems using field and GIS studies), Alexander Vincent (Exotic and native timber species' plantations in Sarawak), Layang Unam (Ecophysiology of soil nutrient use among pioneer tree species), Khairul Adha Rahim (Seedling regeneration in mangrove communities), Mohizah Mohamad (Floristic variation in early successional plant communities) and Hardy Semui (Competitive interactions in stands of pioneer tree species), Sylvester Tan (Comparative ecology of *Diospyros* species in Lambir).
- 2000-2001 Training Malaysian and Thai students in field botanical and ecological techniques.
- 1997-2000 Coordinated tropical field studies for Harvard graduate and undergraduate students in Southeast Asia.
- 1998 Organizer of UNIMAS Tropical Biodiversity Field Course, Lambir Hills National Park, Sarawak. Introduction to research in tropical field biology - international participation. Presenter on plant evolutionary biology.
- 1997-1998 Supervised several final year UNIMAS thesis projects in ecology.
- 1989-1995 Harvard University: Teaching Fellow positions in General Biology, Evolutionary Biology, Plant Systematics.
- 1993 University of Brunei: Occasional lecturer.
- 1988 Australasian College of Natural Therapies, Sydney, Australia. Lecturer.
- 1988 Center for Continuing Education, Sydney University. Teaching Assistant.

FELLOWSHIP ADVISOR:

- 2016-17 Mentored Carolyn Sheffield from the Biodiversity Heritage Library at NMNH, in the Smithsonian's "*Emerging Leaders Development Program*" in a project on ForestGEO diversity.
- 2012 Irene Kopelman, Smithsonian Artist Research Fellow.

POST-DOCTORAL FELLOWS:

- Current: José Medina: Forest-soil nutrient interactions in tropical forests. Daniel Zuleta: Tree mortality in tropical forests.
- 2017-2020 Matthew Luskin: vertebrate effects on forest regeneration in Asia.
- 2017-2019 Ervan Rutishauser: carbon dynamics in tropical forests.
- 2017-2019 Gabriel Arellano: Tree mortality in tropical forests.
- 2016-18 Graham Zemunik: soils and tropical forest function.
- 2010-2012 Erin Kurten: Seasonality effects on forest diversity and function in Southeast Asia.
- 2010-2011 Wang Xugao: Spatial patterns and community dynamics of temperate forest in Changbai Mountain, Northeast China.
- 2010 Aiba Shin-Ichiro: Floristics of Mt. Kinabalu, Sabah, Malaysia. Bullard Fellow, Harvard Forest.
- 2008-2009 Nathan Swenson: Community phylogenetics in Asian forests. NSF Postdoctoral Fellow.
- 2005-2007 Jennifer Baltzer: Ecophysiological correlates of latitudinal gradients in diversity. NSERC Postdoctoral Fellow, Canada.
- 2005-2007 Kenneth Feeley: Biomass dynamics in tropical forests.

- 2004-2006 Kyle Williams: Biogeography and diversity of Peninsular Thailand.
- 2003-2005 Sabrina Russo: Ecophysiology of soil specialist species in rain forests.
- 2003-2005 Dave King: Studies of tropical tree growth.
- 2001-2002 Matthew Potts: Harvard Center for International Development: Elucidating scale effects in sustainable forest management.

PREDOCTORAL ADVISOR:

- 2010-15 External advisor for a Capstone Program at Bradley University, Illinois, that helps computer science undergraduates to address ecological problems. Several of these students have participated in software development projects for CTFS-ForestGEO.

INTERNS:

- 2021-22 Emma Scott, re-design of the ForestGEO database portal and associated software (ongoing).
- 2018-2019 Cara Scalpone, data analysis for understanding climate-driven phenological patterns.
- 2017-2018 Caroline Kittle, collection of trait data from literature search.

PROFESSIONAL ACTIVITIES:

- 2005-22 Director of ForestGEO. Led the global expansion and increased scientific impact of the network. The network has grown from 18 plots in 15 countries to 73 plots in 28 countries. Since 2010, we have added over 42 plots, with expansion into important new biomes (i.e., boreal, temperate, and savanna ecosystems), a broadening of the scientific mission of the network, and greatly increased the participation of research partners across the network. Oversee a staff of 12 people, and current annual budget ~\$3.5 million.
- 2022 Co-organizer: 58th Annual Meeting of the Association for Tropical Biology and Conservation, Symposium: *"Linking field-oriented ecology and ecologists with land surface models and modelers"* by Camille Piconiot, Alexander Shenkin, Lara Kueppers, Alvaro Duque & Stuart Davies (in progress)
- 2021- XPrize Rainforest: Appointed member of the judging panel in 2021. XPrize Rainforest program is a \$10 M project to advance the use of technology in tropical ecology and conservation. Reviewed applications by teams for the first elimination round.
- 2014-22 Chief Scientist, Next Generation Ecosystem Experiment – Tropics, Department of Energy supported program involving 5 National Labs, STRI and other partners.
- 2021-2 ATFS: PI of Alliance for Tropical Forest Science (ATFS) including 11 tropical forest research networks that manage 11,656 forest research plots in 56 countries.
- 2021-2 GEO-TREES: co-investigator and steering committee member for the GEO-TREES initiative, a community activity to the GEO Group on Earth Observations.
- 2005-22 STRI Annual Fellowship committee: served in all years
- 2008-7 STRI Scientific Liaison Committee: Conservation International TEAM partnership.
- 2018 Co-Organizer: 55th Annual Meeting of the Association for Tropical Biology and Conservation, Symposium: *"Changing environments & changing forests: spatial*

- and temporal variation in the dynamics of Southeast Asian forests*” by Sabrina Russo & Stuart Davies
- 2018 Search Committee: Executive Director, Association for Tropical Biology and Conservation.
- 2018 Served on the search committee for a new Senior level Faculty member for the Asian School of the Environment (ASE) at Nan Yang Technological University in Singapore. I also provided input to the search committee for three junior Faculty members at ASE (two hired). I also served on search committee for Program Coordinator for ASE-ForestGEO/SI program.
- 2017 Co-Organizer: 54th Annual Meeting of the Association for Tropical Biology and Conservation, Symposium: “*Exploring the fate of tropical forests under drier climates: linking mechanisms to models*” by Thomas Powell, Bradley Christoffersen & Stuart Davies
- 2016-18 Search Committees: Asian School of the Environment, NTU. Senior faculty search committee.
- 2016-18 Search Committees: Smithsonian Tropical Research Institute, Staff Scientists in Forest Science
- 2015 Organizer: 100th Annual meeting of the Ecological Society of America. Organized Oral Session, “*Functional, Phylogenetic and Genetic Dimensions of Forest Diversity and Change.*”
- 2015-18 Program counterpart for developing partnership between Nan Yang Technological University and the Smithsonian Institution. MOU signed in 2015.
- 2015 I nominated Professor Stephen Hubbell, UCLA and STRI, and cofounder of the Center for Tropical Forest Science, for the Lifetime Scientific Achievement Award at the International Union of Forest Research Organizations (IUFRO). Awarded.
- 2014 PRIZE: Secretary’s Research Prize for book: “*The Ecology and Conservation of Seasonally Dry Forests in Asia*”. Shared with W. McShea.
- 2006-22 Steering committee member of the BDFFP project, INPA, Manaus, Brazil
- 2007-18 Steering committee of Yale-STRI partnership in Environmental Leadership and Training Initiative (ELTI)
- 2007-22 Editorial board of the journal “*Ecological Research*” for the Japanese Ecological Society
- 2015 Session Lead. Organized Oral Session, Ecological Society of America. “*Functional, Phylogenetic and Genetic Dimensions of Forest Diversity and Change.*”
- 2014-18 Canadian Changing Cold Regions Network – member of the network
- 2013 Smithsonian Institution. Marine Global Earth Observatory. Director Search Committee.
- 2012 Promotion committees: Professor, etc.
- 2011 Organizer: First International workshop of the CTFS-ForestGEO network in partnership with the Chinese CForBio program in Changbai, China, under NSF grant DEB-1046113. Dimensions of Diversity IRCN: “*Diversity and forest change: Characterizing functional, phylogenetic and genetic contributions to diversity gradients and dynamics in tree communities*”
- 2010 Co-organizer Harvard University, Department of Organismic and Evolutionary Biology and the Arnold Arboretum. 6th Annual Plant Biology Initiative Symposium: *Trees and the Global Environment* (with M. Holbrook). Cambridge, MA.

- 2009 Research Fellowship for Foreign Specialist, Forestry and Forest Products Research Institute, Japan. 1-10 December 2009. Lecture series.
- 2009 Co-organizer of Ecological Society of America Special Oral Session: *Ecological Insights from Long-term Research Plots in Tropical and Temperate Forests* (with A. Wolf and R. Condit). Albuquerque, New Mexico.
- 2009 University of Queensland: external PhD thesis evaluation.
- 2008 Co-organizer of Conference in *Dry Forests in Tropical Asia* (with W. McShea, N. Bhumpakphan and A. Pattanavibool). As part of the 2008 FORTROP meeting in Bangkok, Thailand.
- 2008 Consultant, Long-term strategic planning exercise for the University of Brunei's Kuala Belalong Field Studies Center.
- 2001-07 Steering Committee member for International Center for Tropical Ecology, University of Missouri, St. Louis.
- 2005-18 STRI research grants review committee.
- 2002-17 CTFS research grants review committee.
- 2002-18 Proposal review for NSF, including numerous Panel service.
- 1995-2018 Manuscript review for numerous journals, symposia and edited books.
- 1990-2002 Member: Association for Tropical Biology, American Society of Plant Taxonomists, American Association for the Advancement of Science, Botanical Society of America, and Ecological Society of America.
- 1996 Consultant for analysis of long-term ecological research data from Sinharaja Forest Reserve, Sri Lanka.
- 1994 Brunei Darussalam. Consultant. Meragang Beach Park Floristic Survey and Environmental Management Recommendations.
- 1992 Brunei Darussalam. Consultant. Establishment of teaching and research plots for Biology in four tropical forests: 4 one-hectare plots, ca. 800 tree species, ca. 8000 trees.
- 1990-1991 Harvard University: Graduate student representative to the committee on graduate studies, Department of Organismic and Evolutionary Biology.

SELECTED CONFERENCE PRESENTATIONS AND INVITED TALKS:

- 2021 Invited Lecture: XPrize Rainforest Prize. "*ForestGEO: A Global Platform for Forest Science & Training*" July 2021.
- 2021 "*Soils and the diversity & dynamics of tropical forests – developing benchmarks for a nutrient-enabled FATES*". with José Medina. NGEE-Tropics Annual Meeting, June 2021.
- 2020 Invited online presentation of the ForestGEO program to NEON leadership, August 2020
- 2020 "*Landscape-scale controls over tropical forest gap dynamics elucidated using repeat drone photogrammetry*". Cushman, K.C., H. Muller-Landau, J. Chambers, S.J. Davies & M. Detto (presenter). AGU Fall Meeting 2020: B127-07.
- 2020 Public Lecture: Crookwell Public Library, NSW, Australia, February 2020.
- 2020 "*Parameterizing tropical forest diversity: integrating a terrestrial biosphere model with remotely sensed trait measurements*". AGU Fall Meeting 2020. E. Ordway (presenter), G. Asner, S.J. Davies, S.L. Lewis, R. Nilus, L. Qie, O.L. Phillips. B041-05
- 2019 Invited Lecture: "*Understanding Tropical Forest Dynamics through a Global Network of Ecological Observatories - ForestGEO*". In a Symposium on "*Tropical ecology and conservation: Long Term Projects to Address Global Environmental Challenges*" Boston University, Boston, MA, October 2019.

- 2019 Invited Keynote Address: *"Long-term research on biodiversity and ecosystem function in tropical forests"* Thailand International Conference on Biodiversity, Bangkok, Thailand, May 2019.
- 2019 NASA-Jet Propulsion Laboratory visit to STRI in Panama, September 2019.
- 2019 Department of Energy NGEE-Tropics Phase 2 Proposal defense talks, October 2019.
- 2019 ForestGEO Internal Smithsonian Advisory Board meeting, May 2019.
- 2019 J. Craig Venter Institute and Asian School of the Environment, NTU, Singapore, workshop on genomics and biodiversity, January 2019.
- 2018 Invited Departmental Seminar. Asian School of the Environment, Nan Yang Technological University (October 2018)
- 2018 NGEE-Tropics Annual Virtual Meeting (2 talks)
- 2018 *"Biodiversity and change: Comparative dynamics of southeast Asian forests."* Association for Tropical Biology and Conservation Annual Meeting, with Sabrina Russo, June 2018.
- 2018 Smithsonian Regents, Washington DC, April 2018.
- 2018 Smithsonian Chicago Initiative, presentation on ForestGEO for fund raising trip led by Secretary Skorton, April 2018.
- 2018 Department of Energy NGEE-Tropics Annual Virtual Meeting 2 talks, February 2018.
- 2018 Department of Energy Annual PI Meeting, May 2018.
- 2018 ForestGEO External Advisory Board meeting, April 2018.
- 2018 Asian School of the Environment, NTU, Singapore, workshop on above- and below-ground processes, March 2018.
- 2017 Invited Departmental Seminar. CIRAD & CNRS Research Institute, Paracou, French Guiana (May 2017)
- 2017 Invited Departmental Seminar. Alabama A&M University (September 2017)
- 2017 Smithsonian National Board, Panama (January 2017)
- 2017 Department of Energy (March 2017)
- 2016 Invited Departmental Seminar. Departmental Seminar. University of Maryland
- 2016 Invited talk. 7° Simposio Nacional Forestal, Colombia. "Using a global forest observing system to track the changing structure and composition of tropical forests" (October 2016)
- 2016 NSF Dimensions of Biodiversity Program Principal Investigators meeting.
- 2016 *"The 4th Mission – The need for a global plot based biomass reference."* Global Forest Observation Initiative (GFOI) in The Hague, NL. Dmitry Schepaschenko (presenter), J. Chave, S.J. Davies, R. Dubayah, T. LeToan, S. Lewis, O. Phillips, S. Quegan, S. Saatchi, K. Scipal. October 2016.
- 2015 Networking for the Sustainable Future of the Tropics. Japanese Association for Tropical Ecology symposium, Kyoto, Japan (2015)
- 2015 American Geophysical Union: *"Changing Structure & Composition of Tropical Forests"*
- 2015 Los Alamos National Labs.
- 2015 European Space Agency.
- 2015 Forest Research Institute of Malaysia. Symposium. *"30 years of Partnership: Recent results from a global forest observing system"*
- 2013 Critical Challenges and Opportunities for Tropical Forest Science, Prince's Charities' International Sustainability Unit at the Royal Society, London (2013)
- 2014 Kasetsart University, Thailand. Conference on Long-term Forest Science

- 2014 Kansas City Public Library “*Why Healthy Forests Matter: Current status and future of the world’s forests*” (2014)
- 2013 Invited talk. AAAS Annual Meeting. Symposium: Networks of Discovery: Delivering Unsurpassed Insight into Changing Global Ecosystems. “*Seeing the Forest for the Trees: ForestGEO Is Revolutionizing Understanding of Forests*”
- 2011 Plum Creek Distinguished Lecturer Series, Invited Speaker, University of Montana.
- 2011-17 Numerous talks on CTFS-ForestGEO and tropical forest research
- 2011 Talk to the Smithsonian National Board. Seven invited talks incl. keynote address at ILTER meeting in Hokkaido, Japan.
- 2010 Talks on CTFS and tropical forest research (12 public or invited talks), incl. talks at the Smithsonian Natural History Museum, the National Museums of Kenya, and Nairobi University, Kenya.
- 2009 Talks on CTFS and tropical forest research (2009: >15 public or invited talks), incl. opening presentation in the Special Session at the ESA meeting in Albuquerque.
- 2008 Talks on CTFS and tropical forest research (2008: >10 public or invited talks)
- 2007 Talks on CTFS and tropical forests (2007: 22 public or invited talks)
- 2006 Invited keynote address: *A global program of long-term tropical forest research: Spatial and temporal scale in forest plot studies* Forest Research Institute of Malaysia.
- 2006 Talk: *Diversification of the Crematogaster-Macaranga symbiosis in Southeast Asia: geography and rain forest history*, Association for Tropical Biology, Kunming, China.
- 2005 Invited keynote address: *Forests of Tropical Asia: Long-term changes in diversity and dynamics*. Singapore Institute of Biology annual meeting.
- 2003-6 Talks describing and promoting the CTFS program: INPA, Manaus, Brazil (2006), National University of Colombia, Medellin, Colombia (2006), National Institute of Education, Singapore (2005), Chinese Institute of Sciences, Beijing, China (2004), University of the Philippines, both Diliman and Los Banos campuses, Philippines (2003), Arnold Arboretum, Harvard University, USA (2004), Kasetsart and Thammasat Universities, Bangkok, Thailand (2004), National Institute of Education, Singapore (2004), National Institute of Environmental Sciences, Tsukuba, Japan (2004), Forest Research Institute of Malaysia, Kepong, Malaysia (2003), Lambir Hills National Park, Sarawak, Malaysia (2004).
- 2003 Talk: *Ecological and evolutionary diversification in Macaranga (Euphorbiaceae)*. Annual Meeting of the Association for Tropical Biology & Conservation, Aberdeen, 7 July 2003.
- 2003 Talk: *The Natural History of Seven Tropical Forests in Asia*. Smithsonian Botanical Symposium – Botanical Frontiers in Southeast Asia. 29 March 2003, Washington DC. USA.
- 2002 Talk: *Floristic patterns in wet seasonal evergreen forest at Khao Chong, Peninsular Thailand*. Flora of Thailand Meeting. November, 2002, Bangkok, Thailand.
- 2001 Invited Talk: *Life History Evolution in a Clade of Tropical Pioneer Trees*. Department of Organismic and Evolutionary Biology, Harvard University. 17 December 2001.
- 2001 Invited Talk: *Origin and Maintenance of Diversity in Tropical Asian Forests*. University of Missouri, St. Louis. 8 October 2001.
- 2001 Talk: *Early stages of rain forest regeneration after logging and shifting agriculture in Sarawak, Malaysia*. Annual meeting Association for Tropical Biology. Bangalore, India.

- 2001 Invited Talk: *Origin and maintenance of diversity in Southeast Asian tropical rain forests*. Department of Organismic and Evolutionary Biology, Harvard University. 2 May 2001.
- 2000 Invited Talk: *The natural history, phylogeny and biogeography of Macaranga in Southeast Asia*. Smithsonian Tropical Research Institution, Panama.
- 1998 Talk: *Dynamics of Macaranga populations in Lambir Hills National Park, Sarawak, Malaysia*. Center for Tropical Forest Science, Smithsonian Tropical Research Institution, Washington DC. Meeting on the Long-Term Ecological plots.
- 1998 Talk: *Biogeography and evolution of Macaranga (Euphorbiaceae) in Malesia*. Fourth International Flora Malesiana Symposium, Kuala Lumpur Malaysia.
- 1998 Talk: *Smoke-haze from the Asian Tropical Forest Fires: Effects on plants and forests*. National University of Singapore. Workshop: Southeast Asian Land/Forest Fires: Science and Policy.
- 1998 Invited Talk: *Ecology and Evolution of Macaranga (Euphorbiaceae)*. Smithsonian Tropical Research Institution, Panama.
- 1997 Talk: *Life-history evolution in early successional trees of Macaranga (Euphorbiaceae) in north-west Borneo*. American Society of Plant Taxonomists, Annual meeting, Montreal, Canada.
- 1997 Invited Keynote Address: *Tropical Ecosystems: Environmental Impacts*. Workshop on 'Environmental Issues and Regional Needs' jointly organized by Ministry of Education, Malaysia, BIOTROP and Universiti Malaysia Sarawak.
- 1995 Talk: *Life-history diversity of pioneer trees in Borneo: growth, demography and ecophysiology*. Ecological Society of America 80th annual meeting, Utah, USA.
- 1995 Talk: *Phylogeny and ecology: a comparative study of pioneer species of Macaranga (Euphorbiaceae) in north-west Borneo*. Third International Flora Malesiana Symposium. Kew, England.
- 1994 Talk: *Pioneer trees of the genus Macaranga (Euphorbiaceae) in Lambir Hills National Park*. Conference on Long-Term Ecological Research at Lambir Hills National Park, Sarawak, Malaysia.

WORKSHOPS:

- 2021 Participant: Department of Energy, Earth System Science, Principal Investigators meeting, August 2021 (virtual meeting).
- 2020 Organizer: 19th International analytical workshop of the ForestGEO network. Workshop was planned and logistics were all arranged for the annual workshop to be held in July in Utah in association with Southern Utah University. Workshop cancelled due to COVID-19 pandemic.
- 2020 Participant: Department of Energy, Earth System Science, Principal Investigators meeting, Potomac, MD, May 2020 (virtual participation).
- 2020 Participant: European Space Agency, Forest Observatory System, meeting. London, UK, October 2019 (in person).
- 2019 Organizer: 18th International analytical workshop of the ForestGEO network. Workshop involved ca. 60 participants from 20 countries for two weeks. Workshop resulted in the initiation or completion of over 50 research projects. Singapore, 22 June - 6 July 2019
- 2019 Participant: Workshop for defense of NGEE-Tropics Phase 2 proposal, Puerto Rico, October 2019 (in person).
- 2019 Participant: National Geographic, Global Rainforest Convening, Washington, DC. 30 September - 2 October 2019 (in person)

- 2019 Participant: Department of Energy, Earth System Science, Principal Investigators meeting, Potomac, MD, 1-3 May 2019.
- 2019 Participant: J. Craig Venter Institute workshop on Genomics and Biodiversity, Singapore (January 2019)
- 2019 Participant: SESYNC-NSF workshop on "*Networks of networks*," September 2019
- 2019 Participant: National Geographic, Global Rainforest Convening, Washington, DC (30 September - 2 October 2019)
- 2019 Participant: AGU annual meeting (December 2018, Washington, DC)
- 2018 Organizer: 17th International analytical workshop of the ForestGEO network. Workshop involved ca. 60 participants from 20 countries for two weeks. Workshop resulted in the initiation or completion of over 50 research projects; dozens of peer-reviewed papers resulted from the previous 2015 workshop. Nove Hradý, Czech Republic, 20 July - 3 August 2018
- 2018 Co-organizer: Workshop on "*Top-down and Bottom-up drivers in Southeast Asian forests: Tropical Forest Nutrient & Exclosure Experiments*". Singapore and Malaysia, 20-22 March 2018.
- 2018 Participant: Department of Energy, Earth System Science, Principal Investigators meeting, Potomac, MD, 1-2 May 2018
- 2017 Organizer: 16th International analytical workshop of the ForestGEO network in partnership with the Chinese CForBio program at the Chinese Academy of Forestry in Puerto Rico, under NSF grant DEB-1545761. "*Dimensions of Diversity IRCN: Dimensions US-China: Integrating functional, phylogenetic and genetic components of diversity for an improved understanding of forest structure, dynamics, and change*". PI, with co-PIs: H. Muller-Landau, N. Swenson, L. Comita & F. Jones. Workshop involved ca. 60 participants from 20 countries for two weeks. Workshop resulted in the initiation or completion of over 50 research projects; dozens of peer-reviewed papers resulted from the previous 2015 workshop. 16-31 August 2017.
- 2017 Organizer: Workshop on "The Future of Tropical Rain Forests in Asia: Experimental and Modeling Approaches". Singapore and Malaysia, 14-20 November 2017.
- 2017 Organizer: ForestGEO database workshop, Washington, DC (7-9 February 2017)
- 2017 Co-organizer: ForestGEO Genomics workshop, BCI, Panama, with Andy Jones (26-28 January 2017)
- 2017 Co-organizer: ForestGEO database workshop for Asian plots, NTU, Singapore, with Suzanne Lao & Shameema Esufali (September 2017)
- 2017 Participant: Department of Energy, Earth System Science, Principal Investigators meeting, Potomac, MD, 25-26 April 2017.
- 2017 Participant: Department of Energy, Earth System Science, NGEE-Tropics Mid-term review, Germantown, MD, 22 March 2017.
- 2016 Organizer: 15th International analytical workshop of the ForestGEO network in partnership with the Chinese CForBio program at the Chinese Academy of Forestry in Hainan, China, under NSF grant DEB-1545761. "*Dimensions of Diversity IRCN: Dimensions US-China: Integrating functional, phylogenetic and genetic components of diversity for an improved understanding of forest structure, dynamics, and change*". PI, with co-PIs: H. Muller-Landau, N. Swenson, L. Comita & F. Jones. Workshop involved ca. 60 participants from 20 countries for two weeks. Workshop resulted in the initiation or completion of over 50 research projects; dozens of peer-reviewed papers resulted from the previous 2015 workshop. 25 July – 9 August 2016.

- 2016 Co-organizer: Smithsonian-NASA-ESA Workshop “*Calibration and Validation of Upcoming NASA and ESA Satellite Missions on Forest Structure and Biomass*”. Ripley Center, Smithsonian, Washington, DC. (31 May – 3 April 2016).
- 2016 Co-organizer & Host: NGEE-Tropics All-Hands Annual meeting, Ripley Center, Smithsonian, 20-23 September 2016.
- 2016 Co-organizer: ForestGEO database workshop, Washington, DC, February 2016
- 2016 Participant: iLAMB (International Land Model Benchmarking project) workshop, supported by Department of Energy, Washington, DC (16-18 May 2016).
- 2016 Participant: UN Climate Action Summit. Representing the Smithsonian. (5-6 May 2016)
- 2016 Participant: NEON new program structure meeting at SCBI, Front Royal (28 March 2016)
- 2016 Participant: Department of Energy, Earth System Science, Principal Investigators meeting, Potomac, MD, 26-27 April 2016.
- 2016 Participant: National Science Foundation, Macrosystems Principal Investigators Meeting 29-30 September 2016
- 2016 Participant: NSF Dimensions of Biodiversity Program Principal Investigators meeting, February 2016
- 2015 Co-Organizer: Workshop on “*Tree mortality and the future of tropical forests*”. NGEE-Tropics, Santa Fe, NM. October 2015.
- 2015 Participant: Conservation International, TEAM, Planning meeting, 20 November 2015
- 2005-10 Organizer, Annual Analytical ForestGEO workshops.

PUBLIC OUTREACH & MEDIA

I oversee the ForestGEO website and outreach program. The ForestGEO web and IT outreach program includes the [ForestGEO website](#), [Twitter](#), [Facebook](#), [Flickr](#), ForestGEOnet listserv, [blog](#) and [Google Scholar](#) sites. The listserv currently has ca. 1,000 recipients. The Twitter page has >3,100 followers and averages c. 30,000 impressions per month. The ForestGEO Google Scholar presence represents >312,000 cumulative citations of ForestGEO papers. Our Flickr account represents 65 sites and myriad workshops and includes more than 4,300 photos.

Prepared a *Tropicos* issue focused on ForestGEO. Published in 2018, with STRI Communications department
 (https://stri.si.edu/sites/default/files/magazine/docs/10_tropicos_october2017.pdf)

Prepared a new publicity brochure describing the key elements of the ForestGEO program.

Selected News Media on Program and Papers

<https://www.ntu.edu.sg/research/research-hub/news/detail/pigging-out-increases-rainforest-biodiversity>

<https://asia.nikkei.com/Spotlight/Environment/Climate-Change/Big-trees-big-climate-impact-Unlocking-Brunei-s-forest-secrets>

"*Increasing tree mortality in a warming world*" Science Daily, March 2018,
<https://www.sciencedaily.com/releases/2018/03/180309095503.htm>

"Inequality is normal: Dominance of the big trees" Science Daily, May 2018,
<https://www.sciencedaily.com/releases/2018/05/180508155029.htm>

"Congress Throws Tropical Forest Research Program a Lifeline" Earth and Space Science News, <https://eos.org/articles/congress-throws-tropical-forest-research-program-a-lifeline>

"Forests Could Turn from Allies to Enemies in the Fight Against Climate Change," Inside Science, November 27, 2019

"Beneficial and harmful fungi are at the root of forest diversity," Mongabay, November 28, 2019

"Climate Change And Deforestation Mean Earth's Trees Are Younger And Shorter," NPR | May 29, 2020

"Why Old-Growth Trees Are Crucial to Fighting Climate Change," Wired | April 1, 2020

"Connecting Roots to Leaves: Studying the Diversity of Plant Functions in a Temperate Forest," Smithsonian Magazine | August 18, 2020

"Pig nest-building promotes tree diversity in tropical forest: Study," Mongabay, March 15, 2021

"NSF Funds UF/IFAS Researchers to Find Out Why Tree are Dying Across the US," University of Florida, June 28, 2021

"Big trees, big climate impact: Unlocking Brunei's forest secrets," Nikkei Asia, May 30, 2021

"New view of species interactions offers clues to preserve threatened ecosystems," Science Daily, April 30, 2021

"Tropical forests in Africa's mountains store more carbon than previously thought – but are disappearing fast," Science Daily, August 25, 2021

"Climate change may be pushing rainforests to a breaking point," National Geographic. September 26, 2021

"Big Trees, Big Benefits," Science Friday, December 17, 2021

2018 -- Czech TV (twice)

Participate in many outreach presentations at the Smithsonian (recent examples include: 2018 Board of Regents; 2017 SI National Board; 2018 Smithsonian in Chicago)

Brunei: <http://bruneitimes.com.bn/news-national/2010/12/10/ubd-harvard-mou-belalong-project>

Participated in educational documentary on ecosystems *The Habitable Planet* for the Annenberg Foundation for high school education.

Interviewed on issues of forests and climate change
 (<http://www.ctfs.si.edu/group/Resources/Videos>)

Initiated the CTFS-ForestGEO Blog (<http://ctfsnews.blogspot.com>)

Initiated the CTFS-ForestGEO Flickr site (<http://www.flickr.com/photos/ctfs>)

Interviewed for COPA airlines inflight magazine article on CTFS (2009).

Interviewed on National Public Radio on tropical forests and climate change (2008).

Interviewed for New York Time article on CTFS (2006).

The *Ecology Letters* paper (2007) on declining growth rates in tropical trees received media attention in several sources, including *Nature*, *New Scientist* and the Harvard University Gazette.

Harvard Gazette article on new science in Papua New Guinea (2008)

Harvard Crimson, student newspaper, article on PNG science (2008).

Interviewed for National Wildlife magazine article on STRI and CTFS (Dec. 08/Jan. 09)

LANGUAGES:

Bahasa Melayu: good simple oral communication.
Spanish: read and elementary communication.

PUBLICATIONS:

Journal Articles (peer-reviewed):

Submitted & In preparation:

1. Kaewfu, M. S. Bunyavejchewin, Dokrak Marod, D. Wiwatwittaya, S.J. Davies, I.C. Baillie, S. Hallett. Effects of termitaria on soil - forest associations at Mae Ping, Northern Thailand. (*in prep.*)
2. Chanthorn, W., T. Wiegand, A. Nathalang, R. Kanjanaraja, S.J. Davies, Z. Sun, N. Tripathi, M. Rejou-Mechain & Warren Brockelman. Community assembly of tropical trees and lianas is driven by soil nutrients, canopy structure and riparian areas (*in prep.*)
3. Kang Min, J.Y. Lim, J. Lutz, S.J. Davies & S.K.Y. Lum. Trajectories of future forest change in Singapore's Bukit Timah Nature Reserve. (*in prep.*)
4. Zuleta, D. G. Arellano, H.C. Muller-Landau, .. S.J. Davies. Tree damage as a carbon flux in tropical forests. (*in prep.*)
5. Needham, J.F., G. Arellano, S.J. Davies, R.A. Fisher, V. Hammer, R. Knox, D. Mitre, H.C. Muller-Landau, D.F. Zuleta, C.D. Koven (submitted) Tree crown damage and its effects on forest carbon cycling in a tropical forest. *Global Change Biology (in revision)*
6. de Lima, R.A.F., O.L. Phillips, A. Duque, J.S. Tello, S.J. Davies, A.A. de Oliveira, S. Muller, E.N.H. Coronado, E. Vilanova, A. Cuni-Sanchez, T.R. Baker, C.M. Ryan, A. Malizia, S.L. Lewis, H. ter Steege, J. Ferreira, B.S. Marimon, H.T. Luu, G. Imani, L. Arroyo, C. Blundo, D. Kenfack, M.N. Sainge, B. Sonké & R. Vásquez. 2022. *Nature: Ecology & Evolution (in press, reference number: NATECOLEVOL-210413467A)*

Published:

7. Sezen, U., S.J. Worthy, M.N. Umana, S.J. Davies, S.M. McMahon & N.G. Swenson (accepted) Comparative transcriptomics of tropical woody plants supports fast and furious strategy along the leaf economics spectrum in lianas. 2022. *Biology Open (Preprint online @BioRxiv)*. <https://doi.org/10.1101/2021.07.06.451334>
8. Kambach, S., R. Condit, S. Aguilar, H. Bruelheide, S. Bunyavejchewin, C-H. Chang-Yang, Y-Y. Chen, G. Chuyong, S.J. Davies, Sisira Ediriweera, Corneille E. N. Ewango, Edwino S. Fernando, N. Gunatilleke, S. Gunatilleke, S.P. Hubbell, A. Itoh, D. Kenfack, S. Kiratiprayoon, Y-C. Lin, J-R. Makana, M. Mohamad, N. Pongpattananurak, R. Pérez, L.J.V. Rodriguez, I-F. Sun, S. Tan, D. Thomas, J. Thompson, M. Uriarte, R. Valencia, C. Wirth, S.J. Wright, S-H. Wu, T. Yamakura, T.L. Yao, J. Zimmerman, N. Rüger. 2022. Consistency of demographic trade-offs across tropical forests. *Journal of Ecology (in press) (Pre-print online @Authorea)*. [10.22541/au.163253541.10680169/v1](https://doi.org/10.22541/au.163253541.10680169/v1)
9. Needham, J., D.J. Johnson, C-H. Chang-Yang, K.J. Anderson-Teixeira, N.A. Bourg, S. Bunyavejchewin, N. Butt, M. Cao, D. Cardenas, Y-Y. Chen, G. Chuyong, H.S. Dattaraja, S.J. Davies, A. Duque, C.E.N. Ewango, E.S. Fernando, R.A. Fisher, C.D. Fletcher, R. Foster, Z. Hao, T. Hart, C-F. Hsieh, S.P. Hubbell, A. Itoh, D. Kenfack,

- C.D. Koven, A.J. Larson, J.A. Lutz, J-R. Makana, Y. Malhi, T.R. Marthews, W. McShea, M. Mohamad, M.D. Morecroft, N. Norden, P.S. Ong, G. Parker, A. Shringi, R. Sukumar, I-F. Sun, H.S. Suresh, S. Tan, D.W. Thomas, J. Thompson, M. Uriarte, R. Valencia, T.L. Yao, S.L. Yap, Z. Yuan, H. Yuehua, J.K. Zimmerman, D. Zuleta & S.M. McMahon. 2022. Demographic composition, not demographic diversity, predicts biomass and turnover across temperate and tropical forests. *Global Change Biology*, <https://doi.org/10.1111/gcb.16100>
10. Zuleta, D., G. Arellano, H.C. Muller-Landau, S.M. McMahon, S. Aguilar, S. Bunyavejchewin, D. Cárdenas, C-H. Chang-Yang, A. Duque, D. Mitre, M. Nasardin, R. Pérez, I-F. Sun, T.L. Yao & S.J. Davies. 2022. Individual tree damage dominates mortality risk factors across six tropical forests. *New Phytologist*, **233** (2), 705-721. <https://doi.org/10.1111/nph.17832>
 11. Gonzalez-Akre, E., C. Pioniot, M. Lepore, V. Herrmann, J.A. Lutz, J.L. Baltzer, C. Dick, G.S. Gilbert, F.L. He, M. Heym, A.I. Huerta, P. Jansen, D. Johnson, N. Knapp, K. Kral, D. Lin, Y. Malhi, S. McMahon, J.A. Myers, D. Orwig, D.I. Rodríguez-Hernández, S. Russo, J. Shue, X. Wang, A. Wolf, T. Yang, S.J. Davies & K.J. Anderson-Teixeira. 2022. allodb: An R package for biomass estimation at globally distributed extratropical forest plots. *Methods in Ecology and Evolution*, **13** (2), 330-338. <https://doi.org/10.1111/2041-210X.13756>
 12. Pioniot, C., K.J. Anderson-Teixeira, S.J. Davies, D. Allen, N.A. Bourg, D.F.R.P. Burslem, D. Cárdenas, C-H. Chang-Yang, G. Chuyong, R. Condit, S. Cordell, H.S. Dattaraja, C.W. Dick, Á. Duque, S. Ediriweera, C. Ewango, Z. Ezedin, J. Filip, C. Giardina, T. Hart, A. Hector, R. Howe, C-F. Hsieh, S. Hubbell, F.M. Inman-Narahari, A. Itoh, D. Jánik, D. Kenfack, K. Král, J.A. Lutz, J-R. Makana, S. McMahon, W. McShea, X. Mi, M. Mohamad, V. Novotný, M.J. O'Brien, R. Ostertag, G. Parker, R. Pérez, H. Ren, G. Reynolds, M.D.M. Sabri, L. Sack, A. Shringi, S-H. Su, R. Sukumar, I-F. Sun, H.S. Suresh, D.W. Thomas, J. Thompson, M. Uriarte, J. Vandermeer, Y. Wang, I.M. Ware, G.D. Weiblen, T.J.S. Whitfeld, A. Wolf, T.L. Yao, M. Yu, Z. Yuan, J. Zimmerman, D. Zuleta & H. Muller-Landau. 2022. Distribution of biomass dynamics in relation to tree size in forests across the world. *New Phytologist*. <https://doi.org/10.1111/nph.17995>
 13. Zuleta, D., S.M. Krishna Moorthy, G. Arellano, H. Verbeeck & S.J. Davies (2022) Vertical distribution of trunk and crown volume in tropical trees. *Forest Ecology and Management*, **508**, 120056. <https://doi.org/10.1016/j.foreco.2022.120056>
 14. Anderson-Teixeira, K.J., V. Herrmann, C. Rollinson, B. Gonzalez, E.B. Gonzalez-Akre, N. Pederson, R. Alexander, C.D. Allen, R. Alfaro-Sánchez, T. Awada, J.L. Baltzer, P.J. Baker, S. Bunyavejchewin, P. Cherubini, J. Cooper, S.J. Davies, C. Dow, R. Helcoski, J. Kašpar, J. Lutz, E.Q. Margolis, J. Maxwell, S. McMahon, C. Pioniot, S. Russo, P. Šamonil, A. Sniderhan, A.J. Tepley, I. Vašíčková, M. Vlam & P. Zuidema (2021) Joint effects of climate, tree size, and year on annual tree growth derived from tree-ring records of ten globally distributed forests. *Global Change Biology*, **28** (1), 245-266. <https://doi.org/10.1111/gcb.15934>
 15. Cushman, K. C., S. Bunyavejchewin, D. Cárdenas, R. Condit, S.J. Davies, A. Duque, S.P. Hubbell, S. Kiratiprayoon, S.K.Y. Lum & H.C. Muller-Landau. 2021. Variation in trunk taper of buttressed trees within and among five lowland tropical forests. *Biotropica*, **53**, 1442– 1453. <https://doi.org/10.1111/btp.12994>
 16. Davies, S.J., I. Abiem, K. Abu Salim, S. Aguilar, D. Allen, A. Alonso, K. Anderson-

Teixeira, A. Andrade, G. Arellano, P. S. Ashton, P. J. Baker, M. E. Baker, J. L. Baltzer, Y. Basset, P. Bissiengou, S. Bohlman, N. A. Bourg, W. Y. Brockelman, S. Bunyavejchewin, D. F. R. P. Burslem, M. Cao, D. Cárdenas, L.-W. Chang, C.-H. Chang-Yang, K.-J. Chao, W.-C. Chao, H. Chapman, Y.-Y. Chen, R. A. Chisholm, C. Chu, G. Chuyong, K. Clay, L. S. Comita, R. Condit, S. Cordell, H. S. Dattaraja, A. A. de Oliveira, J. den Ouden, M. Detto, C. Dick, X. Du, Á. Duque, S. Ediriweera, E. C. Ellis, N. L. E. Obiang, S. Esufali, C. E. N. Ewango, E. S. Fernando, J. Filip, G. A. Fischer, R. Foster, T. Giambelluca, C. Giardina, G. S. Gilbert, E. Gonzalez-Akre*, I. A. U. N. Gunatilleke, C. V. S. Gunatilleke, Z. Hao, B. C. H. Hau, F. He, H. Ni, R. W. Howe, S. P. Hubbell, A. Huth, F. Inman-Narahari, A. Itoh, D. Janík, P. A. Jansen, M. Jiang, D. J. Johnson, F. A. Jones, M. Kanzaki, D. Kenfack, S. Kiratiprayoon, K. Král, L. Krizel, S. Lao, A. J. Larson, Y. Li, X. Li, C. M. Litton, Y. Liu, S. Liu, S. K. Y. Lum, M. S. Luskin, J. A. Lutz, H. T. Luu, K. Ma, J.-R. Makana, Y. Malhi, A. Martin, C. McCarthy, S. M. McMahon, W. J. McShea, H. Memiaghe, X. Mi, D. Mitre, M. Mohamad, L. Monks, H.C. Muller-Landau, P. M. Musili, J. A. Myers, A. Nathalang, K. M. Ngo, N. Norden, V. Novotny, M. J. O'Brien, D. Orwig, R. Ostertag, K. Papathanassiou, G. G. Parker, R. Pérez, I. Perfecto, R. P. Phillips, N. Pongpattananurak, H. Pretzsch, H. Ren, G. Reynolds, L. J. Rodriguez, S.E. Russo, L. Sack, W. Sang, J. Shue, A. Singh, G.-Z. M. Song, R. Sukumar, I.-F. Sun, H. S. Suresh, N.G. Swenson, S. Tan, S. C. Thomas, D. Thomas, J. Thompson, B. L. Turner, A. Uowolo, M. Uriarte, R. Valencia, J. Vandermeer, A. Vicentini, M. Visser, T. Vrska, X. Wang, X. Wang, G. D. Weiblen, T. J. S. Whitfeld, A. Wolf, S. J. Wright, H. Xu, T. L. Yao, S. L. Yap, W. Ye, M. Yu, M. Zhang, D. Zhu, L. Zhu, J. K. Zimmerman & D. Zuleta. (2021) ForestGEO: Understanding forest diversity and dynamics through a global observatory network. *Biological Conservation*, **253**, 108907.

17. Arellano, G., D. Zuleta & S.J. Davies. 2021. Tree death and damage: A standardized protocol for frequent surveys in tropical forests. *Journal of Vegetation Science*, **32**(1) <https://doi.org/10.1111/jvs.12981>
18. ForestPlots, Blundo, C.,... S.J. Davies.. (or 150 authors) (2021) Taking the pulse of Earth's tropical forests using networks of highly distributed plots. *Biological Conservation*, **260**, 108849- , <https://doi.org/10.1016/j.biocon.2020.108849>
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