

**Name:** S. Joseph Wright

**Present Position:** Senior Scientist (2004-present)  
Smithsonian Tropical Research Institute

**Employment History:** Research Scientist (1983-2004)  
Smithsonian Tropical Research Institute

Post-doctoral fellow, Univ Iowa (1982-1983)

Visiting assistant professor, Univ Montana (1981-1982)

Post-doctoral fellow, Smithsonian Institution (1980-1981)

**Education:** Ph. D. University of California at Los Angeles, 1980  
A.B. Princeton University, 1974

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## **Honors:**

Distinguished Scholar in the Sciences – awarded by Smithsonian Institution, 2023

Ecology and Evolution in Panama Leader Award – awarded by Research.com, 2022 and 2023

Ecology and Evolution World Ranking #84 – awarded by Research.com, 2023

Highly Cited Researcher – awarded by Clarivate Analytics, 2017 and 2018

President, Association for Tropical Biology and Conservation (elect 2003, serving 2004, past 2005)

## **Research Grants Pending:**

2023-2026 Bioacoustics, monitoring and DNA metabarcoding of sound-producing insects in a rainforest: relations with climate, vegetation and forest structure (Czech GACR; PI Greg Lamarre; collaborator L Symes, S Segar, H ter Hofstede, SJ Wright)

## **Research Grants Awarded:**

2024-2025 Building the basis for automated species identification of tropical plants from spectral and laser scanning data. (Smithsonian Scholarly Studies. US\$75,000. PI H. Muller-Landau, co-PI SJ Wright and S Davies.

2023-2028 Cyclic vs. anthropogenic causes of long-term variation in the regeneration of tropical forests with contrasting latitude and diversity (NSF LTREB: Collaborative Research (Proposal 2325527) US\$599,875; PIs M Metz, JK Zimmerman; Senior collaborator N Garwood, SJ Wright)

2023-2025 Monitoring the distribution, phenology and mortality of selected tropical tree species from space (NASA Roses 22-CSDSA22; US\$472,992. PI Antonio Ferraz; co-PIs HC Muller-Landau & S Berry; collaborators SJ Wright, J Burley)

2022-2025 Refining estimates of tropical forest greenhouse gas exchange using plant traits. (UK NERC; UK£799,755; PI E Sayer; co-PIs S Pangala, N McNamara; ‘Partner’ SJ Wright)

2018-2025 Corteva Agriscience—STRI Forest Metabolomics Collaboration (US\$1,072,000; PIs B Sedio and SJ Wright)

2021-2024 Collaborative Research: Genes to ecology in tropical trees: how sharing resistance gene alleles affects pathogen transmission and growth. (NSF IOS-2039487 640402, US\$458,972, PI SJ Wright, co-PIs JH Marden, K Broders, E Spears)

- 2021-2024 Escaping the enemy: Spatial ecology of rainforest insect-tree interactions. (Leverhulme Trust, RPG-2021-042, £418,844, PI Sofia Gripenberg, Senior consultant SJ Wright, HC Muller-Landau)
- 2020-2024 Diverse selective pressure on fruit chemical traits from mutualists and antagonists as a major driver of chemical evolution at the whole plant level. (NSF IOS-1953934 IOS-1953934, US\$1,077,000, PI Noelle Beckman, co-PI SJ Wright; subaward to Smithsonian US\$215,000, PI SJ Wright)
- 2019-2022 Comparison of forest structure between Southeast Asia and Latin America in relation to light competition and disturbance (Grants-in-Aid for Scientific Research - KAKENHI – Fund for the Promotion of Joint International Research (Fostering Joint International Research (B)); PI Yusuke Onoda; Collaborator SJ Wright)
- 2018-2022 Cyclic vs. anthropogenic causes of long-term variation in the regeneration of tropical forests with contrasting latitude and diversity (NSF LTREB: Collaborative Research (Proposal 1754632) US\$450,000; PIs M Metz, N Garwood, JK Zimmerman; co-PI SJ Wright)
- 2018-2022 Soil-plant interactions in a changing climate (United States – Israel Binational Science Foundation (BSF proposal number 2017044) US\$270,000; PI E Lebrija-Trejos; co-PIs SJ Wright, HC Muller-Landau, K McGuire; subaward to Smithsonian US\$102,654; PI SJ Wright)
- 2018 Experimental exploration of nutrient limitation in a lowland, species-rich, tropical forest (Smithsonian Scholarly Studies; US\$36,000; PI SJ Wright)
- 2017-2019 Beyond the growth-survival trade-off: A global analysis of demographic diversity and trade-offs in species-rich forests (German Center for Integrative Biodiversity Research (iDiv) €14,000 plus 2-yr post-doctoral salary; PI N Rüger; co-PIs C Wirth, H Bruelheide, WS Harpole, SJ Davies, SJ Wright)
- 2016-2019 Collaborative Research: Extending leaf functional trait ecology to leaf symbionts (NSF DEB-1556583 \$360,000; PI SA van Bael; co-PIs SJ Wright, EA Arnold)
- 2016-2018 Fostering a cost-effective system to manage secondary forest succession to increase long-term carbon storage (The Nature Conservancy, Advisors LS Comita and SJ Wright to fund the post-doctoral fellowship of Anna Sugiyama)
- 2016-2017 The effect of an extreme El Niño event on tropical forest seedling regeneration (NSF RAPID \$149,000; PI FA Jones; co-PI and subaward PI SJ Wright; co-PIs L Comita, B Engelbrecht)

- 2015 What are the consequences of shared enemies for the community structure of tropical forests? (Smithsonian Competitive Grants Program, \$75,000; PI SJ Wright with co-PI B Sedio)
- 2014-2018 Explaining the rapid increase in lianas in tropical forest (Netherlands Organization for Scientific Research NWO, 203,500 Euros, PI FJ Sterck with “core team” members SJ Wright, SA Schnitzer and F Bongers to fund the doctoral studies of Jose Medina)
- 2014-2015 Species-specific effects of interannual climate variation on seed production and seedling establishment of tropical trees (Smithsonian Competitive Grants Program, \$100,000, PI HC Muller-Landau with co-PI SJ Wright)
- 2014-2015 The chemical composition of forest tree communities (Smithsonian Grand Challenges Levels I & II, \$70,000; PI SJ Wright, co-PI B Sedio)
- 2013 Whole ecosystem nutrient budgets for long-term manipulative field experiments on Barro Colorado Nature Monument, Panama (Smithsonian Scholarly Studies, \$75,000; PI BL Turner with co-PIs SJ Wright and EVJ Tanner)
- 2012-2016 Quantifying the importance of niches to tree species coexistence in a tropical forest (Netherlands Organization for Scientific Research NWO, 203,500 Euros, PI H de Kroon with “promoters and advisors” HC Muller-Landau, E Jongejans and SJ Wright to fund the doctoral studies of Marco Visser)
- 2011-2016 Long-term studies of flowering, fruiting and seedling recruitment in Neotropical forests: global change, climate variability and species coexistence (NSF LTREB Collaborative Research \$450,000; co-PI with N. Garwood, DEB614525; H. Muller-Landau, DEB614055 and J. Zimmermann, DEB614659 PIs)
- 2011-2016 Temperature responses of leaf dark respiration and their implications for tropical forest carbon balance (NSF 1051789, \$445,000; PI K Kitajima, co-PIs SJ Wright, J Lichstein, HC Muller-Landau; subaward to STRI, \$100,000; PI HC Muller-Landau, co-PI, SJ Wright)
- 2011-2012 The functional ecology of tropical forests (Convocatoria Programas Nacionales de Investigacion de Colombia \$30,000; PI A Duque, co-PIs J Leon & SJ Wright)
- 2010-2011 Managing secondary tropical forests to enhance short and long term carbon storage (Smithsonian Scholarly Studies Program \$50,000; PI SJ Wright)
- 2006-2011 Long-term studies of flowering, fruiting and seedling recruitment in Neotropical forests: global change, climate variability and species coexistence (NSF LTREB Collaborative Research \$450,000; co-PI with N. Garwood, DEB614525; H. Muller-Landau, DEB614055 and J. Zimmermann, DEB614659 PIs)

- 2005-2008 Seed dispersal by wind and plant recruitment in tropical forests – an interdisciplinary investigation across multiple scales (**NSF** DEB 0453665; \$442,000; co-PI with R. Nathan and H. C. Muller-Landau, PIs and R. Avisar, co-PI)
- 2003-2008 The long-term dynamics of plant reproduction in tropical moist forest (Smithsonian Environmental Sciences Program; \$247,000)
- 2003-2005 The myriad effects of mammal defaunation on seed dispersal, seed predation, seedling regeneration, and plant diversity in a tropical forest (Smithsonian Institution; \$45,000)
- 2001-2006 Interannual seed rain variability, dispersal limitation, seed/seedling mortality in a Southeast Asian rainforest: implications for the maintenance of tree diversity (**NSF** DEB 0108388 co-PI with S. Hubbell, PI; \$481,000)
- 2002-2003 Workshops to Articulate and Disseminate Research Priorities in Tropical Biology (**NSF** DEB-0211380 with K. S. Bawa, N. M. Nadkarni and W. J. Kress; \$24,000)
- 1998-2002 The long-term dynamics of plant reproduction in tropical moist forest (Smithsonian Environmental Sciences Program; \$240,000)
- 1998-2004 The life histories of tropical trees (Andrew W. Mellon Foundation; \$227,000)
- 1998-2001 The carbon balance of tropical forest canopies (Lounsberry Foundation, PI with Klaus Winter and Steve Mulkey, co-PIs; \$150,000)
- 1997-2001 Integration of canopy and hydraulic architecture in *Psychotria* species along light and moisture gradients (**NSF** IBN-9604424 with R. Pearcy, PI, and M. Tyree, co-PI; \$270,000)
- 1998-2000 Light augmentation of canopy trees in a tropical wet forest (**NSF** IBN-9805908 with Steve Mulkey, PI; \$50,000)
- 1997-1999 Nutrient Augmentation of a Tropical Forest (Smithsonian Scholarly Studies; PI, \$70,000)
- 1995-1999 Accessing the Canopy-Assessment of biological diversity and microclimate of the tropical forest canopy: Phase II (United Nations Environment Fund; PI, \$525,000)
- 1993-1996 Coordination of leaf physiology and morphology with variation in resources available to two Neotropical tree species (**NSF** IBN 92-20759 co-PI with S. Mulkey, PI; \$181,000)

- 1993-1997 The long-term dynamics of plant reproduction in tropical moist forest (Smithsonian Environmental Sciences Program; PI, \$260,000)
- 1992-1994 The phenology and ecophysiology of tropical dry forest trees (Smithsonian Scholarly Studies Program; PI, \$52,000)
- 1992-1994 Ecophysiology of tropical dry forest trees (Smithsonian Becker Fund; PI, \$32,000)
- 1985-1992 The long-term dynamics of plant reproduction in tropical moist forest (Smithsonian Environmental Sciences Program; PI, \$180,000)
- 1988-1990 Ecophysiology of tropical rain forest understory plants (Smithsonian Scholarly Studies Program PI with A. Smith and S. Mulkey, co-PIs; \$100,000)
- 1984-1989 Tropical forest water augmentation experiment (Smithsonian Environmental Sciences, PI, \$250,000)
- 1986-1987 Tropical forest nutrient dynamics (Smithsonian Becker Fund; PI with J. Yavitt and K. Wieder, co-PIs; \$23,000)
- 1985 Outbreak herbivory on a tropical tree (Smithsonian Research Opportunities Fund; \$3,000)
- 1984 Demography of Colorado desert plants (Smithsonian Research Opportunities Fund; \$4,000)
- 1983 Demography of Colorado desert plants (National Geographic Society, co-PI with H. Howe, PI; \$10,000)
- 1982 Tinker Foundation postdoctoral fellowship
- 1980-1981 Smithsonian Institution postdoctoral fellowship

## Publications (376, excluding manuscripts in review, book reviews and data sets):

Publication impact measured by citations on 14 February 2024.

| Source                           | h index | Citations |       |
|----------------------------------|---------|-----------|-------|
|                                  |         | Total     | 2023  |
| Web of Science – core collection | 96      | 34,587    | 3,268 |
| Google Scholar*                  | 121     | 57,377    | 4,520 |

\* <https://scholar.google.com/citations?user=icJpxpMAAAAJ&hl=en>

## Manuscripts in review:

Van der Sande, MT, L Poorter, ..., SJ Wright, K Zanini, F Bongers. In review. Functional diversity changes during tropical forest succession in resource-poor but not in resource-harsh environments. **Global Ecology and Biogeography** (revision submitted 14 February 2024)

Zhu, Y., M Liwei, X Mi, SJ Wright, D Burslem, C Min, M Keping, R Bagchi, C-H Chang-Yang, L Chen, C Chu, K Clay, S Ediriweera, Z Hao, L Houdková, M Jiang, G Jin, D Johnson, J LaManna, V Novotny, J Leps, X Li, J Lian, L Lin, L Heming, M Metz, J Myers, M O'Brien, R Phillips, H Ren, I-F Sun, M Uriarte, X-H Wang, X Wang, G Weiblen, X Wusheng, Y Wanhui, J Zimmerman. In review. Conspicuous reduce seedling survival more strongly in wet and low latitude forests. **Science** (submitted 15 February 2024, manuscript number ado6177).

Ovaskainen, O., Abrego, N., Furneaux, B., Hardwick, B., Somervuo, P., Palorinne, I., Andrew, N. R., Babiy, U. V., Bao, T., Bazzano, G., Bondarchuk, S. N., Bonebrake, T. C., Brennan, G. L., Bret-Harte, S., Bässler, C., Cagnolo, L., Cameron, E. K., Chapurlat, E., Creer, S., D'Acqui, L. P., de Vere, N., Desprez-Loustau, M., Dongmo, M. A., Dyrholm Jacobsen, I. B., Fisher, B. L., Flores de Jesus, M., Gilbert, G. S., Griffith, G. W., Gritsuk, A. A., Gross, A., Grudd, H., Halme, P., Hanna, R., Hansen, J., Hansen, L., Hegbe, A. D., Hill, S., Hogg, I. D., Hultman, J., Hyde, K. D., Hynson, N. A., Ivanova, N., Karisto, P., Kerdraon, D., Knorre, A., Krisai-Greilhuber, I., Kurhinen, J., Kuzmina, M., Lecomte, N., Lecomte, E., Loaiza, V., Lundin, E., Meier, A., Mešić, A., Miettinen, O., Monkhouse, N., Mortimer, P., Müller, J., Nilsson, R. H., Nonti, P. C., Nordén, J., Nordén, B., Paz, C., Pellikka, P., Pereira, D., Petch, G., Pitkänen, J., Popa, F., Potter, C., Purhonen, J., Pätsi, S., Rafiq, A., Raharinjanahary, D., Rakos, N., Rathnayaka, A. R., Raundrup, K., Rebriev, Y. A., Rikkinen, J., Rogers, H. M., Rogovsky, A., Rozhkov, Y., Runnel, K., Saarto, A., Savchenko, A., Schlegel, M., Schmidt, N., Seibold, S., Skjøth, C., Stengel, E., Sutyryna, S. V., Syvänpää, I., Tedersoo, L., Timm, J., Tipton, L., Toju, H., Uscka-Perzanowska, M., van der Bank, M., van der Bank, F. H., Vandenbrink, B., Ventura, S., Vignisson, S. R., Wang, X., Weisser, W., Wijesinghe, S. N., Wright, S. J., Yang, Y., Yorou, N. S., Young, A., Yu, D. W., Zakharov, E. V., Hebert, P. D. and Roslin, T. Global Spore Sampling Project: A global, standardized dataset of airborne fungal spores. **Scientific Data** (submitted 3 Jan 2024).

Abrego, N., Furneaux, B., Hardwick, B., Somervuo, P., Palorinne, I., Aguilar, C., Andrew, N. R., Babiy, U. V., Bao, T., Bazzano, G., Bondarchuk, S. N., Bonebrake, T. C., Brennan, G. L., Bret-Harte, S., Bässler, C., Cagnolo, L., Cameron, E. K., Chapurlat, E., Creer, S., D'Acqui, L. P., de Vere, N., Desprez-Loustau, M., Dongmo, M. A., Dyrholm Jacobsen, I. B., Fisher, B. L., Flores de Jesus, M., Gilbert, G. S., Griffith, G. W., Gritsuk, A. A., Gross, A., Grudd, H., Halme, P., Hanna, R., Hansen, J., Hansen, L., Hegbe, A. D., Hill, S., Hogg, I.

- D., Hultman, J., Hyde, K. D., Hynson, N. A., Ivanova, N., Karisto, P., Kerdraon, D., Knorre, A., Krisai-Greilhuber, I., Kurhinen, J., Kuzmina, M., Lecomte, N., Lecomte, E., Loaiza, V., Lundin, E., Meier, A., Mešić, A., Miettinen, O., Monkhouse, N., Mortimer, P., Müller, J., Nilsson, R. H., Nonti, P. C., Nordén, J., Nordén, B., Norros, V., Paz, C., Pellikka, P., Pereira, D., Petch, G., Pitkänen, J., Popa, F., Potter, C., Purhonen, J., Pätsi, S., Rafiq, A., Raharinjanahary, D., Rakos, N., Rathnayaka, A. R., Raundrup, K., Rebriev, Y. A., Rikkinen, J., Rogers, H. M., Rogovsky, A., Rozhkov, Y., Runnel, K., Saarto, A., Savchenko, A., Schlegel, M., Schmidt, N., Seibold, S., Skjøth, C., Stengel, E., Sutyryna, S. V., Syvänperä, I., Tedersoo, L., Timm, J., Tipton, L., Toju, H., Uscka-Perzanowska, M., van der Bank, M., van der Bank, F. H., Vandenbrink, B., Ventura, S., Vignisson, S. R., Wang, X., Weisser, W., Wijesinghe, S. N., Wright, S. J., Yang, Y., Yorou, N. S., Young, A., Yu, D. W., Zakharov, E. V., Hebert, P. D., Roslin, T. and Ovaskainen, O. Airborne DNA metabarcoding reveals that fungi follow predictable spatial and seasonal dynamics at the global scale. **Nature** (submitted 3 January 2024).
- Tang, W, JS Hall, OL Phillips, RJW Brienen, SJ Wright, M Wong, LO Hedin, M van Breugel, PM Hannam, SA Batterman. In review. Tropical forest carbon sequestration accelerated by nutrients. **Nature** (submitted 22 December 2023).
- Wright, SJ and O Calderón. In review. An absence of long-term trends in leaf production in old-growth forests. **Ecology** (submitted on 17 Dec 2023; manuscript ECY23-1254)
- Broders, KD, H Capador-Barreto, G Iriarte, SJ Wright, H Espinosa, M Baur, MA Lemus-Peralta, E Rojas, ER Spear. In review. Oomycete communities in lowland tropical forest soils vary in abundance and are composed of saprophytes and pathogens of seeds and seedlings of multiple plant species. **American Journal of Botany** (1 December 2023; manuscript number: AJB-D-23-00379).
- Capador-Barreto, HD, J Ballesteros, K Broders, ER Spear, SJ Wright. In review. Multiple soil-borne pathogens influence the short- and long-term survival of *Virola nobilis* seedlings: implications for the maintenance of tropical forest diversity. **American Journal of Botany** (submitted 13 Nov 23; manuscript number AJB-D-23-00357)
- Knox, RG, CD Koven, WJ Riley, AP Walker, SJ Wright, JA Holm, X Wei, RA Fisher, Q Zhu, J Tang, DM Ricciuto, JK Shuman, X Yang, LM Kueppers, JQ Chambers. In review. Nutrient Dynamics in a Coupled Terrestrial Biosphere 2 and Land Model (ELM-FATES-CNP). **Journal of Advances in Modeling Earth Systems** (submitted 9 September 2023; manuscript 2023MS003689R) <https://james-submit.agu.org/cgi-bin/main.plex?el=A4Ga4GpyR1B6FIlc5F4A9ftdehmojomiFJWEjCePEaepfgZ>
- Wong, MY, N Wurzburger, JS Hall, SJ Wright, W Tang, LO Hedin, K Saltonstall, M van Breugel, SA Batterman. Trees adjust nutrient acquisition strategies across tropical forest secondary succession. **New Phytologist** (submitted 21 December 2023; manuscript NPH-MS-2023-45796).



## Publications:

- Kambach, S, H Bruelheide, L Comita, R Condit, **SJ Wright**, S Aguilar, C-H Chang-Yang, Y-Y Chen, N Garwood, SP Hubbell, M Metz, R Pérez, S Queenborough, I-F Sun, N Swenson, J Thompson, M Uriarte, R Valencia, TL Yao, J Zimmerman, N Rüger. In press. Putting seedlings on the map: Trade-offs in demographic rates between ontogenetic size-classes in five tropical forests. **Ecology** (accepted Jan 24; manuscript ECY23-0985)
- Cusack, DF, CM Smith-Martin, B Christoffersen, KM Andersen, AL Cordeiro I, K Fleischer, **SJ Wright**, NR Guerrero-Ramírez, LF Lugli, LA McCulloch, M Sanchez-Julia, SA Batterman, C Dallstream, C Fortunel, L Toro, L Fuchslueger, MY Wong, D Yaffar, JB Fisher, M Arnaud, LH Dietterich, SD Addo-Danso, OJ Valverde-Barrantes, M Weemstra, JC Ng, RJ Norby. In press. Toward a coordinated understanding of hydro-biogeochemical root functions in tropical forests for application in vegetation models. **New Phytologist** (accepted 10 January 2024; manuscript number 2023-43600.R2).
- Muller-Landau HC, **Wright SJ** (eds). 2024. The First 100 Years of Research on Barro Colorado Island: Plant and Ecosystem Science. Smithsonian Institution Scholarly Press (accepted 23 March 2023)
- Meakem V, **SJ Wright**, HC Muller-Landau. 2024. Variation in forest structure, dynamics, and composition across 100 ha of forest plots on Barro Colorado Island. In: Muller-Landau HC, Wright SJ (eds) The First 100 Years of Research on Barro Colorado Island: Plant and Ecosystem Science. Smithsonian Institution Scholarly Press (accepted 23 March 2023)
- Muller-Landau, HC and **SJ Wright**. 2024. Looking Forward to the Next 100 Years of Plant and Ecosystem Science at Barro Colorado. In: Muller-Landau HC, Wright SJ (eds) The First 100 Years of Research on Barro Colorado Island: Plant and Ecosystem Science. Smithsonian Institution Scholarly Press (accepted 23 March 2023)
- Tanner EVJ, C Rodtassana, LM Bréchet, AG Vincent, S Leitman, **SJ Wright**, EJ Sayer. 2024. Gigante Litter Manipulation Experiment (GLiMP). In: Muller-Landau HC, Wright SJ (eds) The First 100 Years of Research on Barro Colorado Island: Plant and Ecosystem Science. Smithsonian Institution Scholarly Press (accepted 23 March 2023)
- Wright SJ**, Calderón O, Hernández A, Muller-Landau HC. 2024. Flower and seed production, seedling dynamics, and tree life cycles. In: Muller-Landau HC, Wright SJ (eds) The First 100 Years of Research on Barro Colorado Island: Plant and Ecosystem Science. Smithsonian Institution Scholarly Press (accepted 23 March 2023)
- Wright SJ**, Harms KE, Garcia MN, Yavitt JB. 2024. A factorial nitrogen, phosphorus, and potassium addition experiment. In: Muller-Landau HC, Wright SJ (eds) The First 100 Years of Research on Barro Colorado Island: Plant and Ecosystem Science. Smithsonian Institution Scholarly Press (accepted 23 March 2023)
- Wright, SJ**, SS Mulkey, JB Yavitt. 2024. A stand-level, water-addition experiment. In: HC Muller-Landau and SJ Wright, eds. The first 100 years of plant research at Barro Colorado Island, Panama. Smithsonian Institution Scholarly Press (accepted 23 March 2023)
- Wright, SJ** and HC Muller-Landau. 2024. A century of plant and ecosystem research at Barro Colorado. In: HC Muller-Landau and SJ Wright, eds. The first 100 years of plant research at Barro Colorado Island, Panama. Smithsonian Institution Scholarly Press (accepted 23 March 2023)

- Vleminckx J, JA Hogan, MR Metz, LS Comita, SA Queenborough, **SJ Wright**, R Valencia, M Zambrano, NC Garwood. 2024. Flower production decreases with warmer and more humid atmospheric conditions in a western Amazonian Forest. **New Phytologist** 241: 1035-1046.
- Sayer, EJ, SF Leitman, **SJ Wright**, C Rodtassana, AG Vincent, LM Bréchet, B Castro, O Lopez, A Wallwork, EVJ Tanner. 2024. Tropical forest aboveground productivity is maintained by nutrients cycled in litter. **Journal of Ecology** (DOI: 10.1111/1365-2745.14251).
- Ngute, ASK, DS Schoeman, M Pfeifer, GMF van der Heijden, OL Phillips, M van Breugel, MJ Campbell, CJ Chandler, BJ Enquist, RV Gallagher, C Gehring, JS Hall, S Laurance, WF Laurance, SG Letcher, W Liu, MJP Sullivan, **SJ Wright**, C Yuan, A Marshall. 2024. Global dominance of lianas over trees is driven by forest disturbance, climate and topography. **Global Change Biology** 30, e17140. <https://doi.org/10.1111/gcb.17140>
- Chang-Yang, CH, PH Chiang, **SJ Wright**, CF Hsieh, IF Sun. 2024. Proximate cues of flowering in a subtropical rain forest. **Biotropica** 56, 78–89. <https://doi.org/10.1111/btp.13282>
- Sugiyama, A, ET Game, **SJ Wright**. 2024. Planting exceptional tropical tree species to increase long-term carbon storage in assisted secondary succession. **Journal of Applied Ecology** 61: 7-12. <https://doi.org/10.1111/1365-2664.14533>
- Metz, MR, **SJ Wright**, JK Zimmerman, A Hernández, SM Smith, NG Swenson, MN Umaña, R Valencia, I Waring-Enriquez, M Wordell, M Zambrano, NC Garwood. 2023. Functional traits of young seedlings predict trade-offs in seedling performance in three neotropical forests. **Journal of Ecology** 111: 2568-2582.
- Garwood, N, MR Metz, SA Queenborough, V Persson, **SJ Wright**, DFRP Burslem, M Zambrano, R Valencia. 2023. Seasonality of reproduction in an ever-wet lowland tropical forest in Amazonian Ecuador. **Ecology** 104: e4133 <https://doi.org/10.1002/ecy.4133>
- Kalyuzhny, M, JK Lake, **SJ Wright**, AM Ostling. 2023. Pervasive within-species repulsion among adult tropical trees. **Science** 381: 563-568.
- Qiu, T, MC Aravena, D Ascoli, Y Bergeron, M Bogdziewicz, T Boivin, R Bonal, T Caignard, M Cailleret, R Calama, SD Calderon, JJ Camarero, CH Chang-Yang, J Chave, F Chianucci, B Courbaud, A Cutini, AJ Das, N Delpierre, S Delzon, M Dietze, L Dormont, JM Espelta, TJ Fahey, W Farfan-Rios, JF Franklin, CA Gehring, GS Gilbert, G Gratzler, CH Greenberg, A Guignabert, QF Guo, A Hackett-Pain, A Hampe, QM Han, J Holik, K Hoshizaki, I Ibanez, JF Johnstone, V Journé, T Kitzberger, JMH Knops, G Kunstler, H Kurokawa, JGA Lageard, JM LaMontagne, F Lefevre, T Leininger, JM Limousin, JA Lutz, D Macias, A Marell, EJB McIntire, CM Moore, E Moran, R Motta, JA Myers, TA Nagel, S Naoe, M Noguchi, M Oguro, R Parmenter, IS Pearse, IM Perez-Ramos, L Piechnik, T Podgorski, J Poulsen, MD Redmond, CD Reid, KC Rodman, F Rodriguez-Sanchez, P Samonil, JD Sanguinetti, CL Scher, B Seget, S Sharma, M Shibata, M Silman, MA Steele, NL Stephenson, JN Straub, S Sutton, JJ Swenson, M Swift, PA Thomas, M Uriarte, G Vacchiano, AV Whipple, TG Whitham, AP Wion, **SJ Wright**, K Zhu, JK Zimmerman, M Zywiec, JS Clark. 2023. Masting is uncommon in trees that depend on mutualist dispersers in the context of global climate and fertility gradients. **Nature Plants** 9: 1044-1056.
- Lee, CKF, G Song, HC Muller-Landau, S Wu, **SJ Wright**, KC Cushman, R Fernandes Araujo, S Bohlman, Y Zhao, Z Lin, Z Sun, PCY Cheng, MK-P Ng. 2023. Cost-effective and accurate monitoring of flowering phenology across multiple tropical tree species over two years with high-resolution drone imagery and deep learning. **ISPRS Journal of Photogrammetry and Remote Sensing** 201: 92-103. <https://doi.org/10.1016/j.isprsjprs.2023.05.022>

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## **Book Reviews and Other Non-refereed Publications**

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- Wright, SJ 2000. Scales of space and time in tropical biology. **Tropinet** XX: XX-XX.
- Wright, SJ and O Calderón. 1999. El Niño events influence plant reproduction in a wet tropical forest. **Center for Tropical Forest Science Newsletter** Summer 1999: 3.
- Wright, SJ. 1994. La Selva: ecology and natural history of a Neotropical rain forest (book review). **Vida Silvestre Neotropical** 3: 51-52.
- Wright, SJ 1980. Insular vertebrate ecology: a multi-taxa approach to comparative island studies. PhD Dissertation. University of California at Los Angeles.

**International Service:**

Steering Committee 5<sup>th</sup> International Conference on Frugivory and Seed Dispersal, Montpellier, France (June 2010)

Organizer with WF Laurance, Tropical forest extinctions: a debate. Washington, DC (2008)

Program Committee, Association for Tropical Biology and Conservation 2007 Annual Meeting, Morelia, Mexico

Organizer, The impact of hunting on tropical forest plant communities. ATBC, Uberlandia, Brazil (2005)

President, Association for Tropical Biology and Conservation (elect 2003, serving 2004, past 2005)

Program Chair, Annual meeting of the Association for Tropical Biology, Panama (2002)

Organizer with N Stork, Third International Canopy Conference, Cairns, Australia (2002)

Council Member, Association of Tropical Biology (1997 to 1999)

Host and Organizer for Tropical Forest Canopy Symposium, Panama (1997)

Host for International Long-term Ecological Research Central and South American Workshop, Panama (1996)

Steering Committee for the "First International Canopy Conference", Marie Selby Botanical Gardens, Sarasota, FL (1994)

Review Committee for the "Biological Diversity of Forest Fragments" project, Manaus, Brazil (1992)

**Editorial Service:**

Subject Matter Editor for 'Ecology' (2017 to present)

Associate Editor for 'PeerJ' (2012 to present)

Associate Editor for 'Biotropica' (2001 through 2004)

Associate Editor for the 'Journal of Ecology' of the British Ecological Society (1997 through 2004)



**Significant Smithsonian Service** (requiring > 2000 hours or *one full work year each*):

- Scientist-in-charge, Canopy Biology Program (1992 to 2008)
- Scientist-in-charge, Terrestrial Environmental Sciences Program (1993 to 2008)
- Acting Deputy Director, Smithsonian Tropical Research Institute (2001-2002)
- Supervisor of 14 game wardens, Barro Colorado Nature Monument (1987-1991)
- Scientist-in-charge, Barro Colorado Nature Monument (1983-1988)

**Current STRI Committees:**

- STRI Council
- Gamboa Management Committee
- Canopy crane program Management Committee

**Past STRI Committees:**

OHR Director search committee (2022)  
Staff scientist search committee (2020)  
Staff scientist search committee (2019)  
Director Search Committee (2013)  
STRI Council (approximately 2005-2011)  
Search Committee for a Marine Biologist (2003)  
Search Committee for a Plant Biologist (2001)  
STRI 2000: Steering Committee  
STRI 2000: Transition Committee  
Search Committee for a Vertebrate Biologist (1998)  
Scientific Council (1992-1996)  
Search Committee for BCI Coordinator (1992, 1986)  
Gamboa Master Plan Committee (1990)  
STRI Morale Committee (1990)  
Search Committee for Tupper Coordinator (1989)  
IBGP Committee (1989)  
Environmental Sciences Program Committee (1983-1988)  
Computer Committee (1988)  
Committee to furnish BCI facilities (1988)  
Search Committee for a Plant Ecophysiologicalist (1987)  
Education Board (1983-1986)  
Search Committee for a Guardabosque (1988, 1986, 1984)  
Committee to coordinate BCI visitors (1984)  
Search Committee for Computer Specialist (1984)  
Search Committee for Supervisor of Guardabosques (1984)  
Five-year Review Committee for the Environmental Sciences Program (1983)  
Tropical Fellowship Committee (1984-1987)  
Niemeyer Trust Advisory Board (1984)

## **Mentoring - Advisor for 56 Smithsonian Fellows**

Dr. Patrick G Cannon (2022-2015) Escaping the enemy: Spatial ecology of rainforest insect-tree interactions

Dr. Guille Peguero (2022-2025) Does variation in chemical defense over environmental gradients drive diversity patterns in tropical forests?

Dr. Hernan Capador-Barreto (2022-2025) Genes to ecology in tropical trees: how sharing resistance gene alleles affects pathogen transmission and growth.

Mr. Hilario Espinosa (2019-2022) Interacting effects of moisture, pathogenic fungi and oomycetes on seedling recruitment in tropical forests: experimental tests of the consequences of climate variability

Ms. Ankita Mitra (2019-2021) Interacting effects of moisture and arbuscular mycorrhizae on seedling recruitment in tropical forests: experimental tests of the consequences of climate variability

Ms. Carolina Sarmiento (2017-2019) Distance-dependent effects of conspecific trees in the seed-associated fungal community composition of tropical pioneer species.

Dr. Camilo Zalamea (2017-2019) (Simons Foundation post-doctoral fellow) Reconciling the absence of pathogen hosts specificity with negative distance- and density-dependent effects in plant community ecology.

Ms. Christina Smith, 2017-2018 (CIC and SI Pre-doctoral Fellow) Determining drought resistance of lianas and trees with leaf anatomy and visualization of embolism.

Dr. Anna Sugiyama (2016-2018) (Nature Conservancy NatureNet Science Fellow) A cost-effective system to manage secondary forest succession to increase long-term carbon storage.

Dr. Brett Wolfe, 2015-2017 (NGEE Tropics post-doctoral fellow) Improving the representation of the water relations of tropical forest trees in Earth Systems Models

Dr. Brian Sedio, 2014-2016 (Tupper Post-doctoral Fellow) The chemical composition of forest tree communities

Mr Eric Griffin, 2012-2013 (SI pre-doctoral fellow) Phyllosphere bacterial communities: Their impact on host plants and limitation by nutrient availability

Dr Goncalo Ferraz, 2009-2014 (STRI post-doc) Avian distributions in old-growth and secondary Amazonian forests

Dr. Kendra Walker, 2011-2012 (SI post-doc) Modeling monitoring dilemmas to predict successful conservation of forests

Ms. Erin Spear, 2011 (SI pre-doc) Exploring the mechanism by which phytopathogens influence tree diversity: host-specific pathogens vs. host-specific responses

Dr. Carolina Puerta Piñero (STRI post-doc) Consequences of climatic fluctuations for recruitment in rain forest tree species: spatio-temporal comparative study (funded by Spanish NGO)

Dr Nina Wurzburger, 2009-2011 (SI post-doc) Nitrogen fixation and mycorrhizae as indicators of plant status

Mr. Juan Pablo Giraldo, 2009-2010 (SI pre-doc) Leaf hydraulic conductance and leaf senescence

Dr. Daisy Dent, 2008-2009 (SI post-doc) The conservation value of secondary tropical forests

Ms. Kelly Andersen, 2006 (SI pre-doc, Effects of herbivory and soil type on understory palm seedling establishment)

Ms. Eloisa Lasso, 2005-2006 (SI pre-doc, Can vegetative reproduction explain the abundance of understory Piper shrubs in tropical forests?)

Mr. Jacob R. Goheen, 2005 (SI pre-doc, Assessing the impacts of large herbivores on Acacia reproduction and establishment: an overlooked Component of Woody Plant Encroachment in East African)

Dr. Patrick Jansen, 2003-2005 (funded by the Netherlands Foundation for the Advancement of Tropical Research; Tropical tree seed dispersal in a multi-trophic context. An automated radio telemetry study at Barro Colorado Island, Panama.)

Dr. Andrew Jones, 2004-2006 (Tupper post-doc, A comparative study of directly measured seed dispersal in tropical trees: linking local and regional processes)

Mr. Alexander Barron, 2004-2005 (SI pre-doc, Patterns and Controls of Nitrogen Fixation in a Tropical Forest)

Dr. Frode Odegaard, 2001-2002 (SI, Species richness and host specificity of phytophagous beetles in two different types of tropical forests in Panama)

Ms. Sunshine Van Bael, 2000-2001 (SI pre-doc, Trophic interactions in wet and dry tropical forests)

Dr. Jens Svenning, 2000-2002 (funded by the Carlsberg Foundation, Denmark: Seed limitation of plant populations in a tropical forest)

Dr. Amy Faivre, 2000-2001 (SI, The pollination biology of Psychotria)

Mr. Nate Dominy, 2001 (10-week grad, Seed size, leaf toughness, and plant demography: does the scatter-clump hypothesis explain tropical species diversity?)

Dr. Roberto Cordero, 1999-2001 (NSF post-doctoral fellow, Integration of canopy and hydraulic architecture along light and moisture gradients)

Dr. Shoko Sakai, 1999-2001 (funded by Japan, Pollination biology)

Dr. Eric Graham, 1998-2001 (NSF post-doctoral fellow, Light augmentation of a tropical forest canopy)

Mr. Charles Elroy, 1999-2000 (funded by UNEP, Host Plant Specificity of Larval Homoptera in Tropical Forests)

Dr. Tete Barigah, 1998-1999 (funded by France, Architecture and hydraulic conductance in the Psychotria)

Dr. Yves Basset, 1998-2002 (Earl S. Tupper post-doctoral fellow, Vertical gradients of insect diversity in the rain forests)

Dr. Simon Zipperlen, 1997-1999 (NSF post-doctoral fellow, Integration of canopy and hydraulic architecture along light and moisture gradients)

Dr. Kyle Harms, 1997-1999 (SI/Mellon fellow, Nutrient augmentation of a tropical forest)

Dr. John Barone, 1997-1998 (SI Post-doctoral fellow, The role of herbivores and pathogens in determining tree diversity: a comparative study)

Dr. Miles Silman, 1997-1998 (SI/Mellon fellow, Plant regeneration along a tropical rainfall gradient)

Lic. Enrique Medianero, 1996-98 (STRI/UNEP fellow, Host specificity among gall forming insects in a tropical forest canopy)

Lic. Anayansi Valderrama, 1996-98 (STRI/UNEP fellow, Host specificity among leaf mining insects in a tropical forest canopy)

Dr. Fernando Valladares, 1995 (Mellon/SI Post-doctoral fellow, Integrative studies of photosynthesis and whole plant performance in the understory at BCI)

Mr. Mitchell Allen, 1995-1997 (Mellon/SI Pre-doctoral fellow, Integrative studies of photosynthesis and whole plant performance in the understory at BCI)

Mr. Nigel Asquith, 1996-97 (Pre-doctoral fellow, Abiotic and biotic control of tree regeneration: an experimental comparison of forest fragments around Gatun Lake, Panama)

Dr. Kaoru Kitajima, 1994-96 (Post-doctoral fellow, Allocation responses of tropical forest trees to seasonal and vertical variation in light and water availability)

Mr. Frode Odgaard, 1995-1996 (Pre-doctoral fellow, Trondheim University; Host specificity of canopy weevils and leaf beetles)

Mr. John Barone, 1994-95 (Pre-doctoral fellow, Seasonal population dynamics and host specificity of insect herbivores)

Dr. Gregory Gilbert, 1991-95 (Post-doctoral fellow, Fungal pathogens of tropical forest trees)

Mr. Damond Kylo, 1993-95 (Pre-doctoral fellow, Mycorrhizal transfer of resources among tropical forest plants)

Dr. Gregory Adler, 1990-93 (Post-doctoral fellow, Demography of Spiny Rats)

Mr. Jaime Cavellier, 1987-88 (Pre-doctoral fellow, Root dynamics in tropical forests).

Dr. Brian Bock, 1985-1986 (Post-doctoral fellow, Genetic divergence in a tropical lizard).

Mr. Jess Zimmerman, 1985-1986 (Pre-doctoral fellow, Sexual selection in an orchid).

Dr. Marina Wong, 1984-1986 (Post-doctoral fellow, Structure of tropical bird communities).

Dr. Donald Feener, 1984-1986 (Post-doctoral fellow, Structure of tropical ant communities).

## **Mentoring - Advisor for 77 STRI Short-term Fellows**

- Ms. Damla Cinoglu. 2023. Plant defenses against insect herbivores along tropical forest succession.
- Ms. Keri Greig. 2023. The influence of nutrient addition on tropical plant defense phenotypes & plant-pathogen interactions.
- Mr. Zarluis Mijango. 2022. The exception that proves the rule? Leveraging novel techniques in ecological metabolomics to understand the competitive dominance of a single tree.
- Ms. Elizabeth Kimbrough. 2017. Relationship of leaf traits to fungal endophyte community assembly in tropical trees. NSF GRIP intern.
- Ms. Michelle Spicer. 2016. Enemies in the air and rough refugia: Experimentally testing how host bark texture & protection from herbivores affects epiphyte germination & growth
- Mr. Stefan Kuepers. 2016. The effect of ENSO drought on seedling demography. University of Leipzig.
- Mr. Evan Gora. 2015. Dead wood in the forest canopy: Patterns of accumulation and decomposition. University of Kentucky.
- Ms. Rebekah Mayhew. 2015. Avian frugivores and associated functional traits in regenerating tropical forests. University of Stirling.
- Dr Raquel Alfaro. 2014. Coupling radial growth and climatic fluctuations in three deciduous tree species of BCNM. ([r.alfarosanchez@gmail.com](mailto:r.alfarosanchez@gmail.com))
- Mr Henry Pollock, 2014. Exploring thermal sensitivity across latitude: are tropical birds more vulnerable to climate change than their temperate-zone counterparts?
- Mr Brandon McNellis, 2014. Can changes in soil nutrient concentrations have an effect on water use in lowland tropical forests?
- Mr Gerald Schneider, 2013. A Canopy Balancing Act: Chemical Defense in Tropical Trees at the Intersection of Biotic and Abiotic Stressors.
- Mr. Justin Shaffer, 2013. Bacteria that inhabit fungi that infect seeds: do endohyphal bacteria influence the outcome of seed-fungus interactions?
- Ms. Victoria Weaver, 2013. Dietary Ethanol Ingestion by Free-ranging Spider Monkeys (*Ateles geoffroyi*): An Evaluation of the 'Drunken Monkey' Hypothesis
- Ms Milka Malenica, 2013. Drought and xylem cavitation in tropical saplings.
- Ms. Laura Walker, 2013. The Community Structure of Soil-inhabiting Myxomycetes and its Response to Fertilization with Nitrogen, Phosphorus, and Potassium
- Mr. Justin Cummings, 2011. Phosphorus limitation of *Saccharum spontaneum*.
- Ms. Katharina Schmidt, 2011. The contribution of bioperturbation to erosion on BCI.
- Ms. Annette Treierweiler, 2011. Tropical nitrogen fixer response to nutrient limitation and CO<sub>2</sub> enrichment.

- Mr. Eric Griffin, 2010. Bacterial abundance and diversity in tropical systems.
- Ms. Stephanie Ramirez, 2010. The impact of seasonal variation in food resources and ranging patterns on the reproductive physiology and behavior of female spider monkeys.
- Mr. Adam Roddy, 2010. Water dynamics of dry season flowering in tropical trees.
- Mr. Martijn Slot, 2010. Foliar respiration and its temperature sensitivity in trees and lianas in a tropical forest canopy.
- Ms. Nicole Michel, 2010. Do mesoherbivores drive Neotropical rainforest understory insectivorous bird declines by limiting availability of preferred foraging microhabitat?
- Ms. Daniela Schweizer, 2010. Phylogenetic signal in symbiont mediated understory community assembly and performance of planted tree seedlings in a native tree plantation in Panama
- Ms. Kristine L. Callis. 2010. Silica as an Herbivory Deterrent in the Tropics
- Mr Brian Sedio, 2009. Phylogeny, secondary chemistry and distributions of *Psychotria*
- Mr Marco Visser, 2008. Density dependent seed predation in the palm, *Attalea butyraceae*.
- Ms. Julie Messier, 2007. How do leaf functional traits vary across organizational scales?
- Ms. Marta Vargas, 2007. Clonal reproduction in tropical lianas
- Ms. Erin Kurten, 2007. Effects of terrestrial mammals on tropical plant community assembly and functional diversity
- Ms. Lindsay Higgins, 2006. Ecology and diversity of tropical grass endophytes.
- Ms. Kelly Andersen, 2005. Effects of herbivory and soil type on understory palm seedling establishment.
- Ms. Eloisa Lasso. 2003. Breeding system, regeneration mode and habitat affiliation in neotropical Piper.
- Mr. Stefan Laube. 2002. Long-term studies in the epiphytic vegetation of *Annona glabra* trees on BCI
- Sr. Ricardo Moreno. 2001. The ecology of cats on Barro Colorado Island, Panama.
- Sr. Eduardo Mendoza. 2000. Consequences of intraspecific seed mass variation for seedling performance in a mammal defaunated scenario.
- Mr. Louis Santiago. 2000. Leaf functional characteristics along an environment gradient: energy and longevity character syndromes.
- Dr. Kirsten Silvius. 2000. Complex interactions in the palm/palm bruchid system: implications for the evolution of frugivory systems.
- Sr. David Galvez. 1999. Eficiencia de captura de luz y ganancia diaria de carbono en plántulas de Psychotria limonensis.
- Ms. Sunshine Van Bael. 1999. Trophic interactions in wet and dry tropical forests.
- Ms. Sandra Ramirez. 1998. Large seed size in Gustavia superba-a dispersal reward or an establishment requirement.

- Ms. Silvia Pacheco. 1997. Variación de la frecuencia de ramificación y largo de entrenudo en respuesta a un gradiente de luz en el género Psychotria.
- Mr. Fernando Bretos. 1997. Pest pressure experienced by plants in wet and dry tropical forests (SI intern).
- Ms. Mónica Mejía. 1997. Efecto del estrés hídrico en plántulas creciendo en fragmentos de diferentes tamaños en el Lago Gatún (STRI short-term fellow)
- Mr. Douglas Altschuler. 1996. Avian ultraviolet light perception and its role in fruit foraging and removal. (STRI short-term fellow)
- Mr. Steven Yanoviak. 1996. Predation and community complexity in water-filled treeholes of Barro Colorado Island (SI 10-week graduate fellowship)
- Mr. Douglas Robinson. 1995-6. Census of bird species and their population sizes on BCI: continuing of a long-term data set on faunal relaxation (STRI short-term fellow)
- Ms. Tami Fikstad. 1995. Canopy and understory comparisons of herbivory and plant defenses (STRI short-term fellow)
- Mr. David Chalcraft. 1995. Population regulation of a forest understory lizard (SI 10-week graduate fellow)
- Srta. Eloisa Lasso. 1995. ¿Está el potencial de aclimatación de las lianas relacionado con el mecanismo utilizado para trepar? (Alan P. Smith fellow)
- Ms. Deborah Olander. 1995. Successional forest light environments on Barro Colorado Island (SI 10-week graduate fellow)
- Mr. Silvio Marchini. 1995. The interaction between secondary seed dispersal and density dependent seed predation (STRI short-term fellow)
- Ms. Jennifer Davidson. 1995. Coevolution of plant pests to the genotype of seed-producing trees (STRI short-term fellow)
- Mr. Viterbo Rodriguez, 1994-95 (Mellon fellow, Arthropod diversity and host plant specificity in a tropical forest canopy)
- Ms. Bettina Engelbrecht. 1994. Interspecific niche differentiation in Piper in two tropical forests.
- Ms. Cecilia Sanchez-Garduno. 1994. Pre-dispersal seed predation in a tropical forest canopy.
- Mr. Gerardo Avalos. 1994. Vine ecology in a tropical forest canopy.
- Mr. Matthew Jones. 1993. Secondary dispersal of seeds by ants.
- Mr. Nigel Asquith. 1993. Seed predation by depauperate mammal communities of habitat fragments.
- Ms. Elizabeth Stacy. 1993. Genetic diversity of rare tropical trees.
- Ms. Marcela Moscol. 1992. Effect of seed water content on germination.
- Mr. John Barrone. 1992. An exploration of the causes of Janzen-Connell distance effects in tropical forest trees.

Ms. Maria Pillar. 1992. A test for density dependence in herbivory rates in a tropical forest.

Mr. Damond Kylo. 1992. Mycorrhizal transfer of resources among tropical forest plants.

Mr. Matthew Jones. 1992. The consequences of seed predation for the spatial distribution of tropical forest herbs.

Ms. Justine Cruz. 1991. Scheelea palms and predators in Panama.

Dr. David Tissue. 1990. Flowering in Psychotria: The role of total nonstructural carbohydrates.

Mr. Parthiba Bose. 1990. The ecology of ants on islands in Gatun Lake, Panama.

Mr. James Roper. 1990. Determinants of nest success in tropical forest birds.

Srta. Amanda Verala. 1988, The forest litter decomposer community

Ms. Robin Manasse. 1987, 1986. Reproductive biology of Crinum erubescens

Ms. Jane Molofsky. 1987. Affects of leaf litter on seedling performance

Ms. Audrey Liese. 1986. Pathology of seedling mortality in Calophyllum longifolium

Ms. Anne Mahler. 1985. Structure of a community of tropical orb-weaving spiders

Mr. Scott Carroll. 1984. Host specificity in tropical homopterans

Mr. Eric Larsen. 1984. Structure of a community of aquatic insects

### **Mentoring - Advisor for 10 Fellows in discontinued programs**

Ms. Alisha Wainwright, 2010. Plant-functional traits in the forests of Central America.

Sr. Dumas Galvez, Intern, 2004-05.

Mr. Trevor Evans, Intern, 2004.

Srta. Alejandra Jaramillo, USFS training grant, 1996.

Sr. Claudio Carrasco, USFS training grant, 1994.

Srta. Maria Pillar, USFS training grant, 1992.

Sr. Alfredo Reyes, Exxon fellow, 1989.

Sr. Carlos Gomez, Exxon fellow, 1986.

Sr. Fernando Cornejo, Exxon fellow, 1986.

Sr. Jose Polanco, Exxon fellow, 1985.



## **Mentoring – Host for 22 fellows in the discontinued Short-term Visitor program**

Dr. Kyle Harms, UCSB, 2000.

Dr. Vojtech Novotny, Institute of Entomology, Branisovska, Czech Republic, 1999.

Dr. Robin Andrews, Virginia Polytechnic Institute, 1999.

Mr. Ben Jarvis, Oxford University, 1998.

Dr. Diane DeSteven, University of Wisconsin, 1998.

Dr. Gregory Adler, University of Wisconsin, 1997, 1989.

Dr. Stephen Mulkey, University of Missouri, 1996, 1992, 1986.

Dr. Catherine Potvin, McGill University, Montreal, Canada, 1995.

Dr. John Gamon, California State University at Los Angeles, Los Angeles, CA, 1994.

Dr. Margaret Lowman, Selby Botanical Garden, Sarasota, 1993.

Dr. Ram Oren, Duke University, Durham, NC, 1993.

Dr. Margaret Devall, Southern Forest Expt Station, Forest Service, USDA, New Orleans, 1993.

Dr. Bernie Parresol, Southern Forest Expt Station, Forest Service, USDA, New Orleans, 1993.

Mr. James Roper, University of Pennsylvania, 1993.

Sr. Fernando Comejo, Universidad Nacional de Peru, 1992, 1988.

Dr. Reiner Zimmerman, Jet Propulsion Lab, Pasadena, CA, 1992.

Dr. Joseph Yavitt, University of West Virginia, 1990, 1985.

Mr. T. Mitchell Aide, Univ. of Utah, 1988

Ms. Ellen O'Hara, Villanova Univ., 1988

Dr. Leila Shultz, Utah State University, 1989, 1988, 1987.

Dr. Nellie Stark, Univ of Montana, 1987, 1986.

Dr. Peter Vitousek, Stanford University, 1985.

## Presentations:

2022 Wright, SJ, O Calderon, HC Muller-Landau. The proximate cues for flowering in a tropical moist forest (ATBC, Cartagena, Colombia)

Chen YY, IF Sun, M Detto, SP Hubbell, TL Yao, SJ Wright. Flowering phenology in a lowland mixed dipterocarp forest (ATBC, Cartagena, Colombia)

Fortier, R, SJ Wright. Nutrient limitation of plant reproduction in a tropical moist forest (ATBC, Cartagena, Colombia)

Sedio, BE, G Peguero, SJ Wright. Species differences in foliar secondary metabolites represent a fundamental niche dimension on Barro Colorado Island, Panama (ATBC, Cartagena, Colombia)

Vleminckx, J, JA Hogan, N Garwood, M Metz, R Valencia, SJ Wright, S Queenborough, L Comita. Inter-annual changes in plant phenology in a tropical ever-wet forest community of Western Amazonia (ATBC, Cartagena, Colombia)

Browne, L, L Markesteijn, R Bagchi, BMJ Engelbrecht, RP Freckleton, FA Jones, OT Lewis, E Manzané-Pinzón, SJ Wright, LS Comita. Drought and soil phosphorus explain variation in functional trait-vital rate relationships in tropical tree seedlings. (ESA, Montreal)

Cordeiro, AL, LH Dietterich, SJ Wright, DF Cusack Fine root biomass, morphology, and chemistry depth distributions vary with precipitation and soil fertility in four lowland tropical forests. (ESA, Montreal)

Kalyuzhny, M, JK Lake, SJ Wright, AM Ostling. Density dependence generates spatial overdispersion of conspecific adult tropical trees. (ESA, Montreal)

Lichstein, JW, M Katabuchi, S Marconi, K Kitajima, SJ Wright. Decomposing leaf mass per area (LMA) into photosynthetic and structural components explains divergent patterns in trait variation within and among species. (ESA, Montreal)

Ma, X Xu, SJ Wright. Light-driven intraspecific variation in leaf traits is critical for simulating ecosystem dynamics with process-based models in tropical forests (ESA, Montreal)

Tang, W, J Hall, O Phillips, R Brienens, SJ Wright, SA Batterman. Soil nutrients drive tropical forest carbon sequestration (ESA, Montreal)

Cusack, DF, LH Dietterich, E Blackaby, N Bouskill, S Chacon, A. Cordeiro, K McFarlane, SJ Wright. Effects of Partial Throughfall Exclusion on Soil Carbon Dynamics in Lowland Tropical Forests Across Rainfall and Soil Fertility Gradients (DOE ESS)

2021 Nakamura, R, SJ Wright, K Kitajima. Diversity of leaf silicon accumulation and its contribution to silicon flux via leaf litter in Panamanian lowland forests. (JASTE, Kyoto)

Chitra-Tarak, R, C Xu, N Kunert, B Wolfe, M Detto, SJ Wright, J Zailaa, L Sack, NG McDowell, K Anderson-Teixeira, SM McMahon. Risky trees in safe waters? Drought-sensitive trees survive on deep water access in a tropical forest community. (AGU, New Orleans)

Ward, R, SJ Wright, L Kueppers. Allocation to reproduction in tropical forest plants. (AGU, New Orleans)

Knox, R, C Koven, W Riley, J Holm, SJ Wright, Q Zhu, A Walker, X Wei, H Muller-Landau, J Tang, D Ricciuto, R Fisher, J Shuman, X Yang, G Lemieux, J Chambers. Evaluation and Parametric Sensitivity of the Enabled Ecosystem Model FATES-ELM at a Tropical Test bed. (AGU, New Orleans)

Akana, P, SJ Wright, D Menge. Fertilizing a tropical forest stimulates cycling of phosphorus but not nitrogen via increased foliar leaching (ESA, virtual)

Cordeiro, AL, L Dietterich, SJ Wright, DF Cusack. Tropical Forest Root Biomass, Depth Distributions, Productivity and Morphology Vary Across Forests with Rainfall, Seasonality, and Soil Fertility (ESA, virtual)

Wong, M, N Wurzbarger, JS Hall, SJ Wright, LO Hedin, M van Breugel, SA Batterman. Plants adjust nutrient acquisition strategies to nutrient availability over tropical forest succession (ESA, virtual)

2020 None

2019 Wright, SJ. Tropical flowering times. (AGU, San Francisco)

Wright, SJ. Plant responses to nutrient addition experiments conducted in tropical forests (BES, Edinburgh)

Koven, CD, RG Knox, R Fisher, J Chambers, BO Christoffersen, SJ Davies, M Detto, M Dietze, B Faybishenko, J Holm, M Huang, M Kovenock, LM Kueppers, D Lawrence, G Lemieux, I Martinez-Cano, E Massoud, N McDowell, HC Muller-Landau, J Needham, RJ Norby, T Powell, A Rogers, S Serbin, JK Shuman, ALS Swann, C Varadharajan, A Walker, SJ Wright, C Xu. Exploring parameter uncertainty in the presence of trait filtering, using the FATES model at a tropical forest site. (AGU, San Francisco)

Cordeiro, AL, LH Dietterich, BL Turner, SJ Wright, L Colburn, G Oppler, DF Cusack. Drying effects on root dynamics in tropical forest soils. (AGU, San Francisco)

Chen, YY, IF Sun, M Detto, SP Hubbell, C Fletcher, SJ Wright. Seed dispersal strategy as drivers to the evolution of flowering phenology (ATBC)

Kambach, S, R Condit, SJ Wright, N Ruger. Generality of Demographic Trade-offs in Tropical Forests (ATBC)

Nakamura R, Turner BL, Westbrook J, Wright J, Sun IF, Itoh A, Davies S, Yao TL, Kitajima K. Spatial variations of soil and plant characteristics relevant for ecosystem silicon cycling in four tropical forests (ATBC)

Barker, W, SJ Wright, L Comita, O Phillips, S Batterman. Enhanced herbivory is widespread across tropical nitrogen-fixing tree species (ESA)

Yavitt, JB, M Huber, BL Turner, SJ Wright. Inferring organic matter dynamics in a tropical soil from a secondary forest (ESA)

2018 Koven, C, R Knox, R Fisher, 20 others, SJ Wright. Benchmarking and parameter sensitivity of FATES predictions of ecosystem structure and function at Barro Colorado Island, Panama (AGU)

Kupers, SJ, C Wirth, BMJ Engelbrecht, A Hernández, SJ Wright, N Rüger. Tropical tree seedlings trade off shade and drought tolerance: a demographic approach (ATBC)

Umaña, NM, L Comita, R Condit, R Pérez, SJ Wright. Differing responses of taxonomic and functional composition of tropical tree species along a rainfall gradient (ATBC)

Sedio, B, J Parker, S McMahan, J Wright. Comparative metabolomics of forest communities: Species differences in foliar chemistry are greater in the tropics (BSA)

Christoffersen, B, 23 others, SJ Wright. Tropical tree hydraulic responses to the 2015-2016 ENSO: a cross-site analysis and insights from a model (ESA)

Marchand, P, LS Comita, SJ Wright, R Condit, SP Hubbell, NG Beckman. Seed to seedling transition shows distance-based mortality effects but no strong Janzen-Connell patterns for tree species at Barro Colorado Island (Panama) (ESA)

Mayes, MA, Y Song, Q Yao, C Pan, G Wang, X Yang, BL Turner, SJ Wright, ER Johnston, M Kim, KT Konstantinidis, R Quinn, D Sihi, MM Tfaily, L Pasa-Tolic. Incorporating microbial “omics” information into a soil biogeochemical model: A novel model scheme to regulate microbial functions and soil carbon dynamics. (ESA)

Xu, X, D Medvigy, SJ Wright, J Wu, M Detto. Drivers of canopy phenology in tropical forests: bridging models and observations from species to ecosystem levels from a perspective of carbon optimization. (ESA)

Jansen, P, M Crofoot, SJ Wright. Responses of Neotropical forest mammals to an extreme El Niño event. (GTOE, Germany)

2017 Wright, SJ. Tropical flowering times. Ecological Society of Japan, Tokyo (20 March)

Kitajima, K, S Mulkey, SJ Wright. Seasonal and leaf age effects on nitrogen, phosphorus and mineral ash concentrations in a tropical forest canopy. Ecological Society of Japan, Tokyo

Rutishauser, E, HC Muller-Landau, SJ Wright, SJ Davies, R Condit, SP Hubbell. Quantifying gap-dynamic cycles of biomass and successional change within an old-growth tropical forest, and their variation over 30 years. European Conference of Tropical Biology, Brussels, Feb 2017

2016 Wright, SJ. Tropical flowering times. EEB Dept, Princeton Univ (24 March)

Wright, SJ. Tropical flowering times. Smithsonian Tropical Research Institute (12 April)

Detto, M, SJ Wright, HC Muller-Landau, SJ Davies. Phenology of seed and leaves rain in response to periodic climatic variability in a seasonal wet tropical forest. AGU Fall meeting.

Wright, SJ. Tropical flowering times. AGU Fall meeting.

Wright, SJ, O Calderón, HC Muller-Landau, YY Chen, IF Sun, A Satake. The environmental regulation of flowering times in tropical moist forests. ATBC annual meeting, Montpellier, France.

Rüger, N, R Condit, D Purves, B Rosenbaum, C Wirth, SJ Wright. Beyond the growth-survival trade-off: Demographic dimensions of tropical trees. ATBC annual meeting, Montpellier, France.

Visser, M, P Jansen, H Muller-Landau, H de Kroon, E Jongejans. Population-level effects of hunting on seed dispersal, seed predation and population abundance in the Neotropical palm, *Attalea butyracea*. ATBC annual meeting, Montpellier, France.

Chen, YY, IF Sun, C Fletcher, SJ Wright. Plant reproductive output altered by selective logging has profound effect on forest regeneration in lowland dipterocarp forests. ATBC annual meeting, Montpellier.

Beckman, NG, C Garzon-Lopez, H Muller-Landau, P Jansen, SJ Wright. Spatial patterns of seed predation by a specialized invertebrate. ATBC annual meeting, Montpellier, France.

Lebrija-Trejos, E, SJ Wright, HC Muller-Landau, A Hernandez. Interacting effects of moisture and biotic interactions on seedling recruitment patterns in tropical forests. ESA annual meeting, Ft Lauderdale.

SJ Wright, JK Zimmerman, R Valencia, NC Garwood, YY Chen, IF Sun, C Fletcher, HC Muller-Landau. The environmental regulation of flowering times in moist tropical forests. ESA annual meeting, Ft Lauderdale.

- Lasky, JR, M Uriarte, JS Clark, P Alvarez-Loayza, J Forero-Montaña, HC Muller-Landau, S Queenborough, V Swamy, NG Swenson, J Terborgh, F Cornejo V., SJ Wright, JK Zimmerman. The effects of inter-annual climatic variation on fecundity of tropical rainforest trees. ESA annual meeting, Ft Lauderdale.
- Wolfe, B, SJ Wright, SJ Davies. From leaf to ecosystem level: controls of transpiration in seasonal tropical forests across a rainfall gradient. DOE NGEE Tropic annual meeting, Washington, DC.
- Detto, M, B Wolfe, SJ Wright, H Muller-Landau, S Davies. Controls of transpiration in a seasonal tropical forest across a rainfall gradient. DOE NGEE Tropic annual meeting, Washington, DC.
- Xu, X, D Medvigy, J Wu, SJ Wright, K Kitajima, SW Pacala. From leaf longevity to canopy seasonality: a carbon optimality phenology model for tropical evergreen forests. AGU fall meeting.
- Wright, SJ. The knowledge base for plants and soils in central Panama. Smithsonian Tropical Research Institute (26 Oct)
- Iida, Y, R Sasaki, M Kodama, YY Chen, C Fletcher, A Kassim, SJ Wright, K Kitajima. Ontogenetic change of leaf trait associations in a lowland tropical rainforest. Ecological Society of Japan.
- 2015 Somers, B., Asner, G.P., Martin, R.E., Anderson, C.B., Knapp, D.E., Wright, S.J., Van de Kerchove, R. (2015). Assessing tropical forest canopy diversity across a bioclimatic gradient using imaging spectroscopy. 1. The 2015 IEEE International Geoscience & Remote Sensing Symposium, July 26-31, Milan, Italy, 1-4
- Detto, M, HC Muller-Landau, SJ Davies, SJ Wright. Carbon and water fluxes from an old-growth tropical forest in central Panama. Ameriflux annual meeting.
- Hosaka, T, T Yumoto, Y-Y Chen, I-F Sun, SJ Wright, S. Numata, N Supardi Sequential flowering of dipterocarps and pre-dispersal seed predation: which is better, early flowering or late flowering? Japanese Society of Tropical Ecology annual meeting.
- Ledo, A, HC Muller-Landau, SJ Wright. JB Illian, DFRP Burslem. Above-ground biomass assessment from long-term field data. German Society of Tropical Ecology annual meeting.
- Muller-Landau, HC, SJ Wright, MD Visser. Interspecific variation in responses of tropical tree seed production and seedling establishment to interannual climate variation. ATBC annual meeting.
- Wright, SJ, HC Muller-Landau, O Calderón. Long-term trends in fine litter production and allocation to reproduction in three tropical forests. ATBC annual meeting.
- Yavitt, JB, M Garcia, KE Harms, EVJ Tanner, BL Turner, SJ Wright. Ecosystem responses to plot-scale nutrient and litter manipulation experiments in tropical moist forest, Panama. ATBC annual meeting.
- Fortunel, C, R Valencia, SJ Wright, NC Garwood, NJB Kraft. Neighborhood interactions and functional trait differences in a hyperdiverse Amazonian forest. ESA annual meeting.
- Muller-Landau, HC, SJ Wright, MD Visser. Interspecific variation in responses of tropical trees to interannual climate variation and their relationships to species traits. ESA annual meeting.
- Katabuchi, M, K Kitajima, SJ Wright, JLD Osnas, JW Lichstein. Decomposing leaf mass into photosynthetic and structural components explains divergent patterns of trait variation within vs. among plant communities. ESA annual meeting.

- Osazuwa-Peters, OL, SJ Wright, AE Zanne Anatomical underpinnings of wood density better associated with growth and mortality of tropical trees. ESA annual meeting.
- Russo, SE and 19 others including SJ Wright. Demographic diversity in tropical forests: functional trade-offs and consequences for species distributions. ESA annual meeting.
- 2014 Baldeck, CA, GP Asner, JR Kellner, SJ Wright, RE Martin, CB Anderson, DE Knapp. Remote tree species identification in a diverse tropical forest with airborne imaging spectroscopy. ESA annual meeting.
- Halterman, S, D Cusack, BL Turner, SJ Wright. Effects of Altered Litter Inputs on Rapidly- and Slowly-Cycling Soil Carbon in a Tropical Forest. ESA annual meeting.
- Muller-Landau, HC, SJ Wright, O Calderon, A Hernandez, R Condit, SP Hubbell. Getting to the root of recruitment limitation: Patterns and causes of interspecific variation in seed arrival and seedling recruitment in a tropical tree community. ESA annual meeting.
- Pau, S, SJ Wright. How does flower production in tropical forests respond to climate change? AAG annual meeting.
- Santiago, LS, SJ Wright, BL Turner. Are Tropical Forest Responses to Rising Atmospheric CO<sub>2</sub> nutrient-limited? AGU fall meeting.
- Kitajima, K, SJ Wright. Ontogenetic shifts and concordance of functional traits and their association with tree demography in Panama. ATBC annual meeting.
- Riebler, A, S Muff, J Guo, E Krainski, SJ Wright, R Bagchi. Adjusting for spatial misalignment in the analysis of seedfall and seedling recruitment data. Workshop on Spatiotemporal Statistics, Valencia.
- Cusack, D, S Halterman, BL Turner, EVJ Tanner, SJ Wright Changes in Litter and Nutrient Availability Effect Soil Carbon Fractions in a Tropical Forest.
- Angert, A, A Gross, BL Turner, SJ Wright, T Weiner, What controls the oxygen isotopes of phosphate in semi-arid and tropical soils? Soil Science Society of America annual meeting.
- Walker, LM, BL Turner, SJ Wright, SL Stephenson. The Response of Myxomycete Communities to 14 Years of N, P, and K Addition in a Lowland Tropical Rain Forest. Latin American Mycological Congress.
- 2013 Osnas, JLD, JW Lichstein, SJ Wright, K Kitajima, PB Reich, N Kraft, SW Pacala. Leaf trait area- and mass-proportionality within and across species and functional groups. ESA annual meeting.
- Markl, JS, M Schleuning, PM Forget, P Jordano, JE Lambert, A Traveset, SJ Wright, K Bohning-Gaese. Meta-analysis of the effects of human disturbance on seed dispersal by animals. ESA annual meeting.
- Muller, HC, M Detto, SJ Wright. Temporal variation in litter fall and litter production in a tropical forest and its relationship to climate and plant functional traits. ATBC annual meeting.
- Mayor, JR, BL Turner, SJ Wright. Stable nitrogen isotopes in soils and leaves following long-term nitrogen and phosphorus addition to a lowland tropical rainforest. ATBC annual meeting.

- Walker, L, SJ Wright. The community structure of litter-inhabiting myxomycetes in a lowland tropical forest of Panama, and its response to 13 years of fertilization with nitrogen, phosphorus, and potassium. International Congress of Protistology, Vancouver.
- 2012 Kitajima, K, M Slot, SJ Wright. Temperature response of leaf dark respiration of tropical canopy trees and lianas and its implication for modeling forest responses to climate warming. ATBC annual meeting.
- Rüger, N, C Wirth, SJ Wright, R Condit. Functional traits explain plasticity of growth rates in tropical tree species. ESA annual meeting.
- Wurzburger N, SJ Wright. Root functional traits reveal complexity in soil nutrient limitation in a lowland tropical forest. ESA annual meeting.
- Mayor, JR, BL Turner, EAG Schuur, SJ Wright. Response of tropical forest nitrogen isotope ratios to 13 years of nitrogen and phosphorus fertilization. ESA annual meeting.
- Pau, S, SJ Wright. The Seasonal and Interannual Influence of Clouds on Tropical Forest Phenology. ESA annual meeting.
- Mendoza, I, SJ Wright, R Condit, A Caubère, P Chatelet, I Hardy, P-M Forget. The influence of climatic variability on tropical plant phenology: a comparison between Panama and French Guiana. ATBC annual meeting.
- 2011 Wright SJ. Los bosques tropicales y los cambios globales en el clima y el atmosfera. Instituto Amazónica de Investigaciones Científicas SINCHI, Leticia, Colombia.
- Harms, KE, JB Yavitt, MN Garcia, M Kaspari, SJ Wright. Limitation by multiple nutrients revealed by a long-term, large-scale nutrient augmentation experiment in lowland Panama. ESA annual meeting.
- Osazuwa, O, SJ Wright, AE Zanne. Radial variation in wood density of twenty tropical rainforest canopy trees differing in growth-mortality strategy. ESA annual meeting.
- Pasquini, SC, SJ Wright, LS Santiago. Are lianas physiologically different from trees? An evaluation using a long-term nutrient enrichment study. ESA annual meeting.
- Slot, M, SJ Wright, K Kitajima. Foliar respiration of canopy trees and lianas in a tropical forest. British Ecological Society annual meeting.
- Detto, M, HC Muller-Landau, SJ Wright. Response of leaf, flower and fruit production to interannual climate variability on Barro Colorado Island, Panama. SCCR symposium.
- Pau, S, EM Wolkovich, J Regetz, BI Cook, SJ Wright. Investigating seasonal, interannual, and long-term trends in clouds and tropical forest phenology. AGU fall meeting.
- Mayor, JR, EAG Schuur, BL Turner, SJ Wright. Nutrient Status and  $\delta^{15}\text{N}$  Values in Leaves and Soils: A Cross-Biome Comparison. AGU fall meeting.
- Giraldo, JP, SJ Wright, Y Xie, B Huang, NM Holbrook. Xylem-transported cytokinins regulate the onset of leaf senescence in the tropical seasonal tree *Anacardium excelsum*. ATBC annual meeting.
- Osazuwa, O, SJ Wright, AE Zanne. Does the growth-mortality tradeoff affect radial variation in wood density of tropical rainforest canopy trees? ATBC annual meeting.

- 2010 Wright SJ. The future of tropical forests. Penn State University, College Park, PA.
- Wright SJ & EL Kurten. Hunters alter frugivore abundance, seed dispersal and the functional composition of the seedling bank in central Panama. Frugivory & Seed Dispersal 2010, Montpellier, France.
- Wright SJ. The future of tropical forests – land use change. Smithsonian Tropical Research Institute
- Wright SJ. The future of tropical forests – land use change. Paul Sabatier Univ, Toulouse, France.
- Wright SJ. The future of tropical forests on a warmer planet. German Plant Ecology Society, Niemejen, Holland.
- Wright SJ. The future of tropical forests – land use change. Wageningen, Holland.
- Wright SJ. The future of tropical forests on a warmer planet. Wageningen, Holland.
- 2009 Wright SJ. Hunters alter the functional composition of tropical floras. Stanford Univ., CA
- Wright SJ and HC Muller-Landau. The future of tropical forest species on a warmer planet. Smithsonian, Washington, DC
- Santiago,LS,C Korine and SJ Wright. Nutrient limitation of seedling growth in a tropical forest. Ecological Society of America annual meeting, Albuquerque, NM
- Westbrook, JW, K Kitajima, WJ Kress, DL Erickson, SJ Wright. Phylogenetic patterns and functional relationships among leaf physical defense traits. Botanical Society of America annual meeting.
- 2008 Wright SJ and O Calderón. 25 years of forest change in Panama. ESA, Milwaukee, WI
- Wright SJ. Climate change in the tropics. Singapore National University
- Wright SJ. Plant functional traits in tropical forests. Botanical Institute of the Chinese Academy of Science, Beijing
- Wright SJ. Plant functional traits in tropical forests. Xishuangbanna Botanical Garden, Kuching, China.
- Wright SJ. An overview of 20 years of seed rain and seedling studies on Barro Colorado Island, Panama. Fushan, Taiwan
- Wright SJ. The future of tropical forests and their species. Forestry Research Institue of Malaysia, Kepong, Malaysia
- Wright SJ, O Calderón and A Hernandez. The dynamics and composition of the seedling bank on Barro Colorado Island, Panama. ATBC Suriname
- Wright SJ. Habitat loss, climate change and the tropical biodiversity crisis. Smithsonian, Panama
- 2007 Wright SJ, D Galvez, P Jansen. Hunting alters the abundances of insect seed predators. ATBC Morelia, Mexico
- Wright SJ and HC Muller-Landau. Land use change, climate change and the extinction of tropical forest species. ATBC Morelia, Mexico



- 2006 Wright SJ. The future of the tropical forests of Southeast Asia. Charles Darwin Symposium, Charles Darwin University, Darwin, Australia.
- Wright SJ. The future of tropical forests and their species. Institute of Ecology, University of Georgia.
- Wright SJ. La futura de bosques tropicales y de sus especies. Escuela de Ciencias Biologicas, Pontifica Universidad Catolica de Ecuador, Quito
- Wright SJ. La futura de bosques tropicales y de sus especies. Estacion Biologica Yasuni, Ecuador
- Jansen PA & Wright SJ. Hunting relieves recruitment limitation of a Neotropical palm. Annual meeting of Tropokologie, Kaiserslautern, Germany.
- Strong, Barron A, Wright SJ, Yavitt JB, Harms K, Hedin L. Litter Chemistry Controls on Heterotrophic N Fixation in a Lowland Tropical Forest, Panama. ESA
- 2005 Wright SJ. The future of tropical forests and their species. Plant Sciences Colloquium, University of Minnesota.
- Wright SJ. The future of tropical forests and their species. Smithsonian Tropical Research Institute, Panama.
- Wright SJ. The inner workings of a tropical forest: El Niño, bees, flowers, mammals, seeds and seedlings. International Institute for Tropical Forestry, San Juan, Puerto Rico
- Wright SJ. Long-term phenology data from Barro Colorado Island, Panama. Center for Tropical Forest Science Symposium, Panama City, Panama
- Zimmerman, JK & Wright SJ. Seasonal variation in irradiance is a dominant influence on tropical flowering and fruiting phenologies. Center for Tropical Forest Science Symposium, Panama City, Panama
- Wright SJ. The myriad consequences of hunting for the plants and animals of tropical forests. Faculty of Mathematics and Natural Science, Turku University, Turku, Finland
- Wright SJ. The inner workings of a tropical forest: El Niño, bees, flowers, mammals, seeds and seedlings. Faculty of Mathematics and Natural Science, Turku University, Turku, Finland
- Wright SJ. Plant diversity in tropical forests. Faculty of Mathematics and Natural Science, Turku University, Turku, Finland
- Wright SJ. The ecology of 21 sympatric *Psychotria* species. Faculty of Mathematics and Natural Science, Turku University, Turku, Finland
- Wright SJ. The future of tropical forests. Faculty of Mathematics and Natural Science, Turku University, Turku, Finland
- Wright SJ. The inner workings of a tropical forest: El Niño, bees, flowers, mammals, seeds and seedlings. Dept Ecol Evol Beh, Univ Minnesota
- Muller-Landau HC and Wright SJ. Seed dispersal and species distributions in tropical forests today and in the future. XVII Internacional Botanical Congreso, Vienna, Austria
- Wright, SJ, Hernandez, A & Condit R. The indirect effects of poachers on seed dispersal in a tropical forest. 4<sup>th</sup> International Frugivory and Seed Dispersal Conference, Brisbane, Australia

- Hooper ER, Legendre P, Condit R & Wright SJ. The effect of dispersal and environment on tree and shrub species composition of 50 ha of tropical rain forest on Barro Colorado Island, Panama. 4<sup>th</sup> International Frugivory and Seed Dispersal Conference, Brisbane, Australia
- Andresen E, Laurance S and Wright SJ. A higher-order functional effect of mammal hunting: Changes in dung beetle assemblages (Association for Tropical Biology and Conservation, Uberlandia, Brazil)
- Perez-Salicrup DR, Calderón O and Wright SJ. Specific changes in leaf litter productin over a 19 year period in a tropical rain forest (Association for Tropical Biology and Conservation, Uberlandia, Brazil)
- Wright SJ. Hunters influence the structure, diversity and species composition of seedling communities (Association for Tropical Biology and Conservation, Uberlandia, Brazil)
- Wright SJ and Calderón O. Long-term and El Nino-related increases in reproduction by tropical forest plants (Association for Tropical Biology and Conservation, Uberlandia, Brazil)
- 2004 Wright SJ. La variación inter-anual en la producción de semillas en un bosque neotropical (Centro de Investigaciones en Ecosistemas, Morelia, México)
- Wright SJ. La cacería furtiva y las consecuencias por los animales y plantas de bosques tropicales (Centro de Investigaciones en Ecosistemas, Morelia, México)
- Wright, SJ, Calderón O, Hernández A. La diversidad de plantas, la producción de semillas, y efectos denso-dependientes negativos en la regeneración de plántulas en un bosque tropical (Congreso de Botánicos Mexicanos, Oaxaca)
- Wright SJ. The consequences of mast fruiting in a Neotropical forest (Dept of Biological Sciences, Univ of Illinois, Chicago)
- Wright SJ. The future of tropical forests (Presidential Address, Association for Tropical Biology and Conservation, Miami)
- Wright SJ and the NCEAS tree life history working group. Ontogenetic consistency or shifts during the ontogeny of tropical trees (Association for Tropical Biology and Conservation, Miami)
- Wright SJ. Variable reproduction by tropical forest plants: causes and consequences of among year variation (EEB, Princeton Univ)
- Kaspari M, Wright SJ, Yavitt J, Harms K, Santana M. Nutrient supply and the structure and function of tropical brown food webs. (Ecological Society of America, Portland)
- Kitajima K, Percy RW, Wright SJ. Leaf-age effects on photosynthetic rates in six tropical understory shrubs support the prediction by the cost-benefit theory of leaf life span. (Ecological Society of America, Portland)
- Gilbert B, Wright SJ, Kitajima K, Muller-Landau HC, Hernandez A. The consistency and ecological importance of life history trade-offs in tropical trees and lianas (Ecological Society of America, Portland)
- 2003 Wright SJ. The ecology of 21 sympatric species of Psychotria (Plant Biology Dept, Univ of Georgia)
- Wright SJ. Inter-annual and spatial variation in seed fall and seedling recruitment in a tropical forest (Nicholson School of the Environment, Duke Univ)

- Wright SJ. Mast fruiting in a Neotropical forest (Dept of Biology, Univ of Miami)
- Wright SJ. The myriad consequences of hunting for vertebrates and plants in tropical forests (Assoc for Tropical Biology and Conservation, Aberdeen Univ, Scotland)
- Chen YY, Sun IF, Wright SJ, Hubbell SP, Noor S. Masting events in a lowland dipterocarp forest, Malaysia. (Assoc for Tropical Biology and Conservation, Aberdeen Univ, Scotland)
- Muller-Landau HC, Wright SJ. See mass and the tradeoff between seed arrival and seed survival in central Panama. (Assoc for Tropical Biology and Conservation, Aberdeen Univ, Scotland)
- Persson V, Garwood NC, Wright SJ, Valencia R. Do seed size, life form and dispersal modes affects community level reproductive patterns in an aseasonal Amazonian rainforest? (Assoc for Tropical Biology and Conservation, Aberdeen Univ, Scotland)
- Zimmerman JK, Wright SJ, Calderón O, Aponte-Pagan M. Influence of seasonal changes in solar radiation on community flowering and fruiting. (Assoc for Tropical Biology and Conservation, Aberdeen Univ, Scotland)
- Wright, SJ. Gap-dependent recruitment, realized vital rates, and size distributions of tropical trees. NCEAS, Santa Barbara, CA.
- Kitajima, K., Kikuzawa, K., Ackerly, D. A., Wright, SJ and Mulkey, S. S. 2003. Leaf-age effect on photosynthetic rates as a key parameter in the theory of leaf longevity. (E SA 2003 Annual Meeting, Savannah, GA).
- 2002 Wright SJ. Mast fruiting in a Neotropical forest (Plant Biology Dept, Univ of Georgia)
- Wright SJ. Mast fruiting in a Neotropical forest (Smithsonian Tropical Research Inst., Panama)
- Kitajima K, Wright SJ. Growth-Survival Trade-Offs Tropical Tree Seedlings in Fields and Nurseries (Assoc for Tropical Biology, Panama City, Panama)
- Mendoza E, Wright SJ, Dirzo R. Floristic Diversity Along a Gradient of Defaunation in the Insular System of Barro Colorado National Monument (Assoc for Tropical Biology, Panama City, Panama)
- Milton K, Giacalone J, Wright SJ. Do Population Fluctuations of Neotropical Frugivores Reflect Fruit Production Estimates? Evidence from Barro Colorado Island (Assoc for Tropical Biology, Panama City, Panama)
- Muller-Landau H, Zimmerman J, Wright SJ. Comparing Seed Production and Seed Dispersal in Luquillo, Puerto Rico, and Barro Colorado Island, Panama (Assoc for Tropical Biology, Panama City, Panama)
- Muller-Landau H, Wright SJ, Hubbell SP, Condit R, Foster RB. What Life History Trade-Offs Do Tropical Trees Face, and How Do They Contribute to Tree Diversity? (Assoc for Tropical Biology, Panama City, Panama)
- Persson V, Garwood NC, Wright SJ, Valencia R. Seasonality of Reproduction in an "Aseasonal" Amazonian Rainforest in Ecuador (Assoc for Tropical Biology, Panama City, Panama)
- Roubik D, Wright SJ, Calderón O. Long-Term Cycles in Flowering, Fruiting and Pollinator Populations in Central Panama (Assoc for Tropical Biology, Panama City, Panama)
- Wright SJ. The Ecology of 21 Sympatric Psychotria (Assoc for Tropical Biology, Panama City, Panama)

- Wright SJ, Muller-Landau HC, Condit R, Hubbell SP. Shade Tolerance, Realized Vital Rates, and Size Distributions of Tropical Trees (Assoc for Tropical Biology, Panama City, Panama)
- Cordero RA, Wright SJ, Kitajima K. Do Pot-Grown Seedlings Grow Like Field-Established Plants? An Experimental Test (Assoc for Tropical Biology, Panama City, Panama)
- Yavitt J, Wright SJ, Harms KE. Soil Nutrient and Fine Root Responses to Fertilization of a Tropical Moist Forest in the Central Lowlands of Panama (Assoc for Tropical Biology, Panama City, Panama)
- 2001 Wright SJ. Density dependence among tropical trees: case studies from Barro Colorado Island, Panama (Assoc for Tropical Biology, Bangalore, India)
- Wright SJ. Temporal variation in seed set and seedling recruitment in a tropical forest. (Biology Dept, James Cook Univ, Cairns, Australia)
- Wright, SJ 2001. General flowering: experiments to distinguish among possible proximate cues. (Forestry Research Inst of Sarawak, Miri, Malaysia)
- 2000 Muller-Landau HC, Wright SJ, Calderón O, Hernández A, Hubbell SP, Condit R, Foster RB. Recruitment limitation in a seasonally wet tropical forest on Barro Colorado Island, Panama. 3rd International Symposium on Frugivores and Seed Dispersal. Campinas, Brazil.
- Wright SJ. Temporal variation in seed set and seedling recruitment in a tropical forest. Botany Dept, Univ of Florida, Gainesville.
- Korine C, Wright SJ, Harms K, Condit R, Hubbell SP, Foster RB The spectrum of responses to light in tree species of lowland tropical forest. Israel.
- Terwilliger VJ, Le Roux-Swarthout DJ, Kitajima K, Mulkey S, Wright SJ. Allocation of stored organic carbon to leaf growth and autotrophic resource use in tropical trees inferred from stable isotopes. Germany.
- 1999 Wright, SJ El Niño events promote seed production in a Neotropical forest. XVI International Botanical Congress, St Louis, MO.
- Wright, SJ The canopy biology program in Panama. European Science Foundation Canopy Meeting, Oxford, England.
- Wright, SJ Temporal variation in seed production in a Neotropical forest. James Cook University, Townsville, Australia.
- Wright, SJ Temporal variation in seed production in a Neotropical forest. Aarhus University, Denmark.
- Wright, SJ Plant regeneration in a forest without mammals. Aarhus University, Denmark.
- 1998 Wright, SJ Temporal variation in seed production in a Neotropical forest. Second International Canopy Conference. Sarasota, FL.
- Wright, SJ The canopy biology program in Panama. Second International Canopy Conference. Sarasota, FL.

- Wright, SJ Temporal variation in seed production in a Neotropical forest. Dept of Ecology and Evolutionary Biology. Princeton University.
- Wright, SJ El Nino effects on Panamanian forests. The Parque Natural Metropolitano, Panama City, Panama.
- Wright, SJ La regeneracion de plantas en el bosque sin mamíferos. IV Congreso Nacional de Ciencias y Tecnología. Panama City, Panama.
- Wright, SJ, O. Calderón and B. DeLeon. El Nino climatic variation influences fruit production in a tropical moist forest. ATB, Baltimore, MD.
- Valladares, F., SJ Wright and R. W. Pearcy. Is phenotypic plasticity important in separating functionally redundant species? Plasticity in Plants, Israel.
- Wright, SJ The El Nino Southern Oscillation, variable fruit production and famine in a tropical forest. Center for Tropical Forest Science, Smithsonian Institution, Washington.
- Muller-Landau, H. C. and SJ Wright. Interspecific variation in seed shadows and fecundity in a Neotropical Forest. Center for Tropical Forest Science, Smithsonian Institution, Washington.
- Harms, K. and SJ Wright. Pervasive seed dispersal limitation and negative density-dependent seed-to-seedling transitions in a Neotropical tree community. Intecol, Florence, Italy and Center for Tropical Forest Science, Smithsonian Institution, Washington.
- Valladares, F., SJ Wright, E. Lasso, K. Kitajima and R. W. Pearcy. Evolution of plant plastic response to light in tropical forests. Intecol, Florence, Italy.
- Wright, SJ and K. Harms. Chance and the coexistence of ecologically similar plant species in tropical forests. Intecol, Florence, Italy.
- Wright, SJ The El Nino Southern Oscillation, variable fruit production and famine in a tropical forest. CRC-TREM, Cairns, Australia (presentation made by R. Condit).
- 1997 Wright, SJ The El Nino Southern Oscillation, variable fruit production and famine in a tropical forest. Smithsonian Tropical Research Institute (Oct 97).
- Wright, SJ The canopy biology programme in Panama. Smithsonian Associates. Panama City, Panama.
- Wright, SJ The biology of a tropical forest canopy. Plenary address. GTÖ, German Trop-Ökologie, Leipzig, Germany.
- Wright, SJ, S. S. Mulkey, E. Newell and K. Kitajima. The phenologies of tropical forest plants. Tropical Forest Canopy Symposium, Panama City, Panama.
- Wright, SJ Concluding remarks - Policy relevant research in forest canopies. Tropical Forest Canopy Symposium, Panama City, Panama.
- Mulkey, S.S., K. Kitajima and SJ Wright. Functional convergence in the canopy of a dry Neotropical forest. Tropical Forest Canopy Symposium, Panama City, Panama.
- Körner, Chr., M. Würth, S.J. Wright and K. Winter. The carbon supply status of a tropical forest canopy. Tropical Forest Canopy Symposium, Panama City, Panama.

- Wright, SJ An overview of canopy research in Panama. European Science Foundation canopy workshop. Puerto Ayacucho, Venezuela.
- Newell, E.A., S.S. Mulkey and S.J. Wright. The storage of carbohydrates in tropical trees: When and where does it occur? ESA, Albuquerque, NM.
- Terwilliger, V.J., D.J. Leroux, K. Kitajima, S.S. Mulkey and S.J. Wright. Carbon translocation and WUE during the development of short-lived leaves of tropical trees. ESA, Albuquerque, NM.
- Miriti, M., H. Howe and S.J. Wright. The significance of germination site on the population dynamics of a common desert shrub, white bur sage (*Ambrosia dumosa*). ESA, Albuquerque, NM.
- 1996 Wright, SJ Long-term environmental research in the Republic of Panama. International Long-term Ecological Research Central and South American Workshop, Panama City, Panama
- Wright, SJ The Environmental Sciences Program of the Smithsonian Tropical Research Institute: 25 years of long-term environmental research. International Long-term Ecological Research Central and South American Workshop, Panama City, Panama
- Kitajima, K., S. S. Mulkey and SJ Wright. Seasonal phenotypic differentiations in the canopy of a tropical dry forest: higher photosynthetic capacity of pre-dry season leaves than in early-wet season leaves. AIBS, Providence, RI.
- Mulkey, S. S., K. Kitajima and SJ Wright. The limits to functional convergence: character syndromes in the canopies of tropical forest trees. AIBS, Providence, RI.
- Pearcy, R. W., E. Lasso, F. Valladares and SJ Wright. Variation in crown architecture, light capture and carbon gain within the genus *Psychotria* on Barro Colorado Island, Panama. AIBS, Providence, RI.
- Wright, SJ, C. Carrasco and O. Calderón. Community-level fruit failure and famine among mammalian frugivores in a tropical rain forest. AIBS, Providence, RI.
- 1995 Wright, SJ The phenologies of tropical forest plants. Konrad Lorenz-Institute für Vergleichende Verhaltensforschung, Vienna, Austria.
- Mulkey, S. S., K. Kitajima, SJ Wright. Plant allocation within a tropical dry forest canopy. ESA. Snowbird, Utah.
- Newell, E., S. S. Mulkey and SJ Wright. Seasonal patterns of carbohydrate storage in stems and roots of four tree species in Panama. ESA. Snowbird, Utah.
- 1994 Wright, SJ Chair: Canopy Processes Session. First International Canopy Conference, Marie Selby Botanical Gardens, Sarasota, FL.
- Lowman, M.D. and S.J. Wright. Temporal and spatial variability in herbivory between Neotropical and Paleotropical rain forest canopies. First International Canopy Conference, Marie Selby Botanical Gardens, Sarasota, FL.
- Mulkey, S.S. and S.J. Wright. Plant phenology and allocation in response to seasonal and vertical light gradients in the upper canopy of a tropical dry forest. First International Canopy Conference, Marie Selby Botanical Gardens, Sarasota, FL.

- Sanchez-Garduno, C., S.J. Wright and C. Potvin. 99.96% of the buds produced by *Anacardium excelsum* are lost before becoming mature seeds. First International Canopy Conference, Marie Selby Botanical Gardens, Sarasota, FL.
- Kitajima, K., S.S. Mulkey and S.J. Wright. Photosynthetic capacity of canopy leaves in a tropical dry forest in Panama: the effects of leaf age, season of leaf production, and branch light environment. First International Canopy Conference, Marie Selby Botanical Gardens, Sarasota, FL.
- Wright, SJ An overview of canopy research in Panama.  
 Dept of Zoology, Univ of Helsinki 12 Sep  
 FINNIDA & Ministry of Environment 13 Sep  
 NORAD & Norwegian Research Council 14 Sep  
 Norwegian Ministry of the Environment 14 Sep  
 University of Oslo 14 Sep  
 Norwegian Directorate for Nature Mgmt 15 Sep  
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