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### Education:

1981            B.S. Electrical Engineering, University of Illinois at Chicago  
1983            M.S., Electrical Engineering, University of Illinois at Chicago  
1988            Ph.D., Electrophysics and Applied Mathematics, George Washington University

### Professional Experience

2000-            Senior Scientist, Jet Propulsion Laboratory, California Institute of Technology  
2005-            Adjunct Professor, Institute of Environment, University of California, Los Angeles  
1991-2000,      Staff Scientist, Jet Propulsion Laboratory, California Institute of Technology  
2000-            Senior Research Fellow, Center for Tropical Research, UCLA  
1990-1991      Research Fellow, Hydrological Science Branch, NASA Goddard Space Flight Center,  
1988-1990      Postdoctoral Fellow, National Research Council, Laboratory for Terrestrial Physics, NASA/GSFC

### Honors and Awards:

- NASA Science Award, 2013
- Ed Stone Award, Jet Propulsion Laboratory, California Institute of Technology, 2012
- NASA Best Achievement Award, 2010
- NASA Tech Brief Award: Change Detection On-Board Imaging Radar Data Processor, 2008
- Excellent Achievement Decade Award, NASA/Jet Propulsion Laboratory, 2006
- Excellent Achievement Decade Award, NASA/Jet Propulsion Laboratory, 2001
- Excellent Achievement Award, NASA/Jet Propulsion Laboratory, 1998.
- Technical Achievement Award, Space Shuttle Imaging Radar Program, Jet Propulsion Laboratory, 1994.
- Young Scientist Award of the Union Radio-Scientifique Internationale (URSI, General Assembly, Prague, Czechoslovakia, 1990).

### National and International Service

2010-present    Project Scientist AIRMOSS Venture Mission  
2007-present    European BIOMASS Mission Advisory Member

2007-present	NASA/DESDynI Mission Science Team Member
2011	Guest Editor, Remote Sensing of Environment
2011	Guest Editor, Journal Geophysical Research, Biogeosciences
2003-2007	Project Scientist, BIOMM ESSP Mission Concept
2003-2007	MODIS and MISR Science Team Member
2000-2008	Science Team Member, Advance Land Observing Satellite (ALOS) of Japan
2004	Forest Ecology Management, Special Issue Editor
1989-Present	AGU, Radio Science Member
1988-Present	IEEE, Geoscience and Remote Sensing, Senior Member
2002-2008	Senior Research Associate, Yellowstone Ecological Research Center
2001-2006	Science Team Member, NASA Instrument Incubator Program
2001-Present	Science Team Member, North American Carbon Program, NACP
2000-2008	Science Team Member, Large-Scale Biosphere Atmosphere in Amazonia (LBA)
2001- 2002	Science Team Member, BIOMASCA Mission, European Space Agency
2001-2002	Guest Editor, International Journal of Remote Sensing.
2001	Member of Biological Fingerprinting, Center for Applied Biodiversity (CI)
1999	Scientist, EX-6 Vegetation Recovery Mission
1999-2007	Board Member, NASA/CCAD Meso-American Biological Corridor Program
1999-2005	Member, Organizing Committee of Conservation Biology and NASA Program.
1997-1998	Science Team Member, NASA/LIGHTSAR Mission.
1999-2003	Member of Working Group of Oak Ridge National Laboratory DAAC.
1993-1998	Science Team Member, <u>B</u> oreal <u>E</u> cosystem <u>A</u> tmosphere <u>S</u> tudy (BOREAS), NASA
1993-1994	Science Team Member, NASA Shuttle Endeavor Mission, SIR-C/X-SAR.
1991-1993	Science Team Member, First ISLSCP (International Satellite Land Surface Climatology Project)
1990-1992	Science Team Member, HAPEX-Sahel: the Hydrology-Atmosphere Pilot Experiment in the Sahel
1990-1993	Science Team Member, Multisensor Airborne Campaign for Hydrology (MACHYDRO) in Spain
1988-1991	Lecturer, Electrical Engineering, George Washington University.
1986-1988	Research Associate Hydrological Sciences Branch, NASA/GSFC, Maryland.
1981-1983	Research ASSociate Telecommunications Laboratory, Electromagnetic Imaging Group (UIC)

### **Academic Mentoring**

#### **Postdoc Advisees**

2014-	Antonio Ferraz, PhD, Institut de Physique du Globe de Paris (IPGP) - Université Paris VII
2011-2014	My-Linh Truong, PhD, University of Renne, Paris, Postdoctoral Fellow, CALTECH
2012-	Fernando Santo, PhD, University of New Hampshire, Postdoctoral Fellow, CALTECH
2010-2012	Salvi Asefi, PhD, University of Alabama, USA, Postdoctoral Fellow, UCLA
2009-2011	Maxim Neumann, PhD, University of Renne, Paris, Postdoctoral Fellow, CALTECH
2009-2012	Trevon Fuller, PhD, University of Texas, Austin, Postdoctoral Fellow, UCLA
2008-2010	Shadi Oviesgharan, PhD, Standford University, Postdoctoral Fellow CALTECH
2007-2010	Henri Thomassen, PhD, Postdoctoral Fellow, UCLA Institute of Environment
2005-2008	Wolfgang, Buermann, PhD., Postdoctoral Fellow, UCLA Institute of Environment

2005-2006 Cassia Prates, PhD, Postdoctoral Fellow, UCLA, Institute of Environment  
 2000-2002 Marc Simard, Ph.D. Post Doctoral Fellow at NASA/Jet Propulsion Laboratory.  
 1998 Roberto Quiroz, Ph.D. CIP Institute, Lima, Peru, Visiting Scientists at NASA/JPL  
 1995-1996 Jose Moreno, Ph.D. University of Valencia, Spain, Visiting Scientist at NASA/JPL

### Student Advisees

2012- Chelsea Robinson, PhD, UCLA, Dept. of Geography  
 2009-2011 Qiang Fu, M.S. Student, UCLA, Dept. of Geography  
 2006-2014 Yifan Yu, PhD Student, UCLA, Atmospheric Sciences  
 2006-2008 Miriam Marlier, Graduate Student, UCLA Atmospheric Sciences  
 2002-2006 Ana Paula Giorgi, UCLA, PhD student, Department of Geography, UCLA  
 2002-2006 Nicole Smith, Ph.D. Student, Dept. of Environmental Science, CALTECH.  
 2003-2005 Donat Agosti, Ph.D. American Museum of Natural History, Visiting Scientist, NASA/JPL  
 2001-2003 Claudia Cordero, M.S. Depart. of Environmental Sciences, University of Salvador, BR  
 1996-1999 Erika Podest, M.S. University of Redding, UK.  
 1993-1995 Nirmal Kashava, Ph.D. Department of Electrical Engineering, University of Pittsburg.  
 1994 Dashin Lin, Ph.D. Department of Earth Sciences, Princeton University.

## Scientific Papers in Refereed Journals

### Publications Prior to 2000

1. Saatchi, S. and R. Lang. 1991. Average reflected power from a one-dimensional slab of discrete scatterers, *Radio Science*, vol. 25, 407-417.
2. Saatchi, S. and Lang, R.H. 1992. Mean wave propagation in a slab of one-dimensional discrete random medium, *Wave Motion*, vol. 15, 301-314.
3. Jackson, T., Kostov, K., and Saatchi, S. 1992 Rock Fraction effects on the interpretation of microwave emission from soils. *IEEE Transaction on Geoscience and Remote Sensing*. 30:610-616.
4. Ranson J., and Saatchi, S. 1992. C-band microwave scattering from small balsam fir, *IEEE Transactions on Geoscience and Remote Sensing*, 30:924-932.
5. Lin, D., Wood, E., Beven, K., and Saatchi, S. 1994. Soil moisture estimation over grass-covered areas using AIRSAR. *International Journal of Remote Sensing*. Vol. 15. 2323-2343
6. Saatchi, S., LeVine, D., and Lang, R. 1994. Microwave backscatter and emission model for grass canopies. *IEEE Transactions on Geoscience and Remote Sensing*, 32:177-186.
7. Ranson J., Saatchi, S., Sun, G. 1995. Boreal forest ecosystem characterization with SIR-C/X-SAR. *IEEE Transactions on Geoscience and Remote Sensing*. 23. 867-876.
8. Moghaddam, M. and Saatchi, S. 1995. Analysis of scattering mechanisms in SAR imagery over boreal forest: Results from BOREAS'93. *IEEE Transactions on Geoscience and Remote Sensing*. GE-33, 1290-1296.
9. Saatchi, S., van Zyl, J., and Assrar, G. 1995. Estimation of canopy water content in Konza prairie grasslands using synthetic aperture radar measurements during FIFE, *Journal of Geophysical Research*. 100, D12, 25481-25496.
10. Saatchi, S. and M. Moghaddam. 1995. Biomass distribution in boreal forest using SAR imagery. Proc. SPIE, 2314, pp 12.
11. Saatchi, S. 1996. Application of SAR remote sensing in land surface processes over tropical region, *Proceedings of VIII Simposio Brasileiro de Sensoriamento Remoto*, April 14-19, 1996, Salvador, Bahia, 213-222.
12. Izenberg, N., Arvidson, E., Brackett, R., and Saatchi, S. 1996. Damage Assessment from the 1993 Missouri river floods using Landsat, SPOT, SIR-C, and TOPSAR data. *Journal Geophysical. Research-Planets*, Vol. 101, No. E10, 23149-23167.

13. LoSeen, D., Chehbouni A., Njoku, E.G., Saatchi, S. Mouglin, E., Monteny, B. A coupled Biomass production, water and surface energy balance model for remote sensing application in semiarid grasslands. *Agric. For. Meteorol.* vol 83, No 1-2, pp 49-74, 1997.
14. Saatchi, S., and Rignot, E. 1997. Land cover classification of BOREAS modeling grid using AIRSAR images. *Remote Sensing of Environment*, Vol. 35, 270-281.
15. Saatchi, S. and K.C. McDonald. 1997, Coherent effects in microwave backscattering models for forest canopies. *IEEE Transactions on Geoscience and Remote Sensing*. 35(4): 1032-1044.
16. Saatchi, S., Soares, J.V., and Alves, D.S. 1997. Mapping deforestation and land cover in Amazon rainforest using SIR-C imagery. *Remote Sensing of Environment*. Vol. 59, No. 2, 191-202.
17. Moghaddam, M., and Saatchi, S. 1999. Monitoring tree moisture using an estimation algorithm applied to SAR data from BOREAS. *IEEE Transaction on. Geoscience and. Remote Sensing*, vol. 37, no. 2, pp. 901-916.
18. Kimball, J, Keyser, A., Running, S., Saatchi, S. 2000. Regional assessment of boreal forest productivity using an ecological process model and remote sensing parameter maps, *Tree Physiology*, vol. 20., 761-775.
19. Simard, M., Saatchi, S., and De Grandi, G.F. 2000. The use of decision tree and multiscale texture for classification of JERS-1 SAR data over tropical forest", *IEEE Transactions on Geoscience and Remote Sensing*, Vol. 38, No. 5, pp. 2310-2321.
20. Saatchi, S., B. Nelson., E. Podest, and J. Holt. 2000. Mapping land cover types in the Amazon Basin using 1 km JERS-1 mosaic, *Int. J. Remote Sensing*, vol. 21, 1201-1234.
21. Moghaddam, M., S. Saatchi, and R. Cuenca. 2000. Estimating subcanopy soil moisture with radar, *Journal of Geophysical Research*. vol. 21, 1235-1250.
22. Saatchi, S.. and M. Moghaddam. 2000. Estimation of crown and stem water content and biomass of boreal forest using polarimetric SAR imagery, *IEEE Transactions on Geoscience and Remote Sensing*. vol. 38, 697-709.
23. De Grandi, G.F., Mayaux, P., Rauste, Y., Rosenqvist, A., Simard, M, and Saatchi, S. 2000. The Global Rain Forest Mapping Project JERS-1 radar mosaic of tropical Africa. *IEEE Transactions on Geoscience and Remote Sensing*. 38, 2218-2233.
24. Rosenqvist, A., Shimada, M., Chapman, B., Freeman, A., De Grandi, G.F., Saatchi, S., Rauste, Y. 2000. The global rain forest mapping project-a review. *International Journal of Remote Sensing*. Vol. 21, 1375-1389.
25. De Grandi, G.F., Mayaux, P., Malingreau, J.P., Rosenqvist, A., Saatchi, S., Simard, M. 2000. New perspectives on global ecosystems from wide-area radar mosaics: flooded forest mapping in tropics. *International Journal of Remote Sensing*. Vol. 21, 1235-1250.
26. Saatchi, S., Agosti, D., Alger, K., Delabi, J., and Musinsky, J. 2000. Examining fragmentation and loss of primary forest in the southern Bahian Atlantic forest of Brazil with Radar Imagery, *Conservation Biology*. Vol. 15, 867-875.
27. Simard, M., De Grandi, F., Saatchi, S., and Mayaux, P. 2001. Mapping tropical coastal vegetation using JERS-1 and ERS-1 radar data with a decision tree classifier, *International Journal of Remote Sensing*, vol. 23:7, 1461-1474.
28. Kimball, J., Running, S., Saatchi, S., 2001. Sensitivity of boreal forest regional water flux and net primary production simulations to sub-grid-scale land cover complexity, *J. Geophysical Research*, vol. 104, D22, 22789-27801.
29. Rosenqvist, A., Shimada, M., Chapman, B.D., Dutra, L.V., Saatchi, S., and Tanaka, O. 2002. The Global Rain Forest Mapping: Project: Introduction from Guest Editors. *International Journal of Remote Sensing*. vol. 23. 1215-1216.
30. Long D., M. Drinkwater, B. Holt, S. Saatchi, and C. Bertoia, 2002. Global ice and land climate studies using scatterometer image data, *EOS, Transaction of American geophysical Union*, October.
31. Mayaux P, De Grandi GF, Rauste Y, Simard M, Saatchi S. 2002. Large-scale vegetation maps derived from the combined L-band GRFM and C-band CAMP wide area radar mosaics of Central Africa. *International Journal of Remote Sensing*, 23 (7): 1261-1282.
32. Podest, E. and Saatchi, S. 2002. Application of multiscale texture in classifying JERS-1 radar data over tropical vegetation, *International Journal of Remote Sensing*. vol. 23. 1487-1506.
33. Smith, N., Saatchi, S., and Randerson, J. (2004). Trends in High Latitude Soil Freeze and Thaw Cycle from 1988-2002, *Journal of Geophysical Research*, Vol. 109, D12101.
34. Freeman, A., and Saatchi. S. 2004. On the detection of Faraday rotation in linearly polarized L-band SAR backscatter signatures. *IEEE Transactions on Geoscience and Remote Sensing*, Vol. 42:8, 1607-1616.

35. Lu, L., A.S. Denning, M.A. da Silva Dias, P. Silva-Dias, M. Longo, S.R. Freitas, and S. Saatchi, 2005. Mesoscale circulation and atmospheric CO<sub>2</sub> variation in the Tapajos Region, Para, Brazil. *Journal of Geophysical Research*, 110, D21102, doi:10.1029/2004JD005757.
36. Smith, T. B., Saatchi, S., Graham, C., Slabbekoorn, H., & Spicer, G. (2005). Putting process on the map: why ecotones are important for preserving biodiversity. *Phylogeny and conservation*, 166-197.
37. Bonneaud, C., Sehgal, R., Saatchi, S., & Smith, T. B. (2005). Effects of forest fragmentation on malaria infections in wild african rainforest birds. *Bulletin-Scandinavian Society for Parasitology*, 14, 34.
38. Sehgal, R., Jones, H. I., Valkiunas, G., Saatchi, S., Tell, L. A., Bonneaud, C., & Smith, T. B. (2005). Effects of deforestation on the prevalence of blood parasites in African rainforest birds. . *Bulletin-Scandinavian Society for Parasitology*, 14, 135.
39. Gillespie, T.W. Zutta, B., Early M. and S. Saatchi. 2006, Predicting and quantifying the structure of tropical dry forests in South Florida And the Neotropics. *Global Ecology and Biogeography*, vol. 16, 225-236.
40. Bergen, K. M., Knox, R. G., & Saatchi, S. 2006., *Multi-dimensional forested ecosystem structure: Requirements for remote sensing observations* (Vol. 212778, p. 36). NASA/CP-2005.
41. Saatchi, S., Houghton, R., Avala, R., Yu, Y., Soares, J-V., 2007, Spatial Distribution of Live Aboveground Biomass in Amazon Basin, *Global Change Biology* (2007) 13, 816–837.
42. Chambers, J.Q., Asner, G., Morton, D., Anderson, L., Saatchi, S. Espirito-Santo, F.D.B. Palace, M., and Souza Jr, C. 2007. Regional ecosystem structure and function: ecological insights from remote sensing of tropical forests, *Trends in Ecology and Evolution*. Vol 22. pp. 10.
43. Myneni, R. B., Yang, W., Nemani, R. R., Huete, A. R., Dickinson, R. E., Knyazikhin, Y., Saatchi, S., ... & Salomonson, V. V. (2007). Large seasonal swings in leaf area of Amazon rainforests. *Proceedings of the National Academy of Sciences*, 104(12), 4820-4823.
44. Aragao, L., Malhi, Y., Roman-Cuesta, R-M., Saatchi, S., Anderson, L. Shimabukuro, E. 2007. Fingerprints of the 1997/1998 and 2005 droughts in Amazonian Rainforests. *Geophysical Research Letters*, Vol. 34, L07701, doi:10.1029/2006GL028946.
45. Saatchi, S., Despain, D. Halligan, K., Crabtree, R. Yu, Y. 2007. Estimating forest fire fuel load from radar remote sensing, *IEEE Geoscience and Remote Sensing*, Vol. 45, No 6, 1726-1740.
46. Moghaddam, M. Y. Rahmat-Samii, E. Rodriguez, D. Entekhabi, J. Hoffman, D. Moller, L. Pierce, S. Saatchi, M. Thomson, 2007. Microwave Observatory of Subcanopy and Subsurface (MOSS): A Mission Concept for Global Deep Soil Moisture Observations. *IEEE Transaction on Geoscience and Remote Sensing*, Volume 45, Aug. 2630 – 2643.
47. Hecht, S.B. and Saatchi, S. Globalization and Tropical Forest Recovery in Densely Populated Landscapes, *Bioscience*, vol. 57, 8, 663-672. 2007.
48. Prates, C., Saatchi, S., and Agosti, D. 2007 Modeling Geographical Distribution of Tropical Timber Trees Using Remotely Sensed Environmental Variables, Submitted to *Ecological Modeling*. 09.024.
49. T. Smith, B. Mila, G. Grether, H. Slabbekoorn, I. Sepil, W. Buermann, S. Saatchi, J. Pollinger, 2008. Evolutionary Consequences of human disturbance in a rain forest bird species in Central Africa, *Molecular Ecology*, DOI: 10.1111/j.1365-294X.2007.03478.
50. Saatchi, S., Buermann, W., Ter Steege, H., Mori, S., & Smith, T. B. (2008). Modeling distribution of Amazonian tree species and diversity using remote sensing measurements. *Remote Sensing of Environment*, 112(5), 2000-2017.
51. Buermann, W. S. Saatchi B.R. Zutta J. Chaves, B. Milá C. H. Graham, and T. B. Smith. 2008. Application of Remote Sensing Data in Predictive Models of Species' Distribution, *Journal of Biogeography*, doi:10.1111/j.1365-2699.2007.01858.x.
52. Bush, M.B., Silman, M.R., McMichael, C., Restrepo-Correa, A., Urrego, D.H., Correa, A., Saatchi, S. 2008. Fire, climate change, and biodiversity in Amazonia: A late-Holocene perspective. *Transactions of Royal Society, Biological Sciences*, 363: 1795-1802.
53. Aragao, L., Malhi, Y., Barbier, N., Anderson, L. Saatchi, S., Shimabukuro, E. 2008 Interactions between rainfall, deforestation and fires during recent years in the Brazilian Amazonia, *Transactions of Royal Society, Biological Sciences*, 363: 1779-1785.
54. Gillespie, T.W., Foody, G. M., Rocchini, D., Giorgi, A. P., and S. Saatchi. 2008. Measuring and modeling biodiversity from space. *Progress in Physical Geography*, 32, 203-221.

55. Aragão, L.E.O.C., Malhi, Y., Barbier, N., Lima, A., Shimabukuro, Y., Anderson, L., and Saatchi, S., 2008. 'Interactions between rainfall, deforestation and fires during recent years in the Brazilian Amazonia', *Philosophical Transactions of the Royal Society – Biological Sciences*, 363, 1779-1985.
56. Ribeiro, N. Saatchi, S.S., Shugart, H.H., and R.A. Washington-Allen, 2008. Aboveground biomass and leaf area index(LAI) mapping for Niassa Reserve, northern Mozambique. *JGR. Biogeosciences*, 113: G02S02, doi:10.1029/2007JG000550. pp12.
57. Gillespie, T., Saatchi, S., Pau, M., Bohman, S., Giorgi, A.P., and S. Lewis. 2009. Towards Predicting Species Richness in Tropical Rainforests: A Case Study from Panama, *International Journal of Remote Sensing*, 30:6,1629-1634.
58. Mitchard, E.T.A., Saatchi, S.S., Gerard, E.F., Lewis, S.L., Meir, P. 2009. Measuring woody encroachment along a forest-savanna boundary in central Africa, *Earth Interactions*, vol 13, pp 8.
59. Mitchard, E. T. A., Saatchi, S. S., Woodhouse, I. H., Nangendo, G., Ribeiro, N. S., Williams, M., ... & Meir, P. (2009). Using satellite radar backscatter to predict above-ground woody biomass: A consistent relationship across four different African landscapes. *Geophysical Research Letters*, 36(23).
60. Saatchi, S., Malhi, Y., Zutta, B., Buermann, W., Anderson, L. et al., 2009. Mapping the distribution of forest structure, biomass, and productivity in Amazonia, *Biogeosciences, Discussions*.
61. Bonneaud, C., Sepil, I. Mila, B., Buermann, W., Sehgal, R. G. Valkinunas, Izehova, T., Saatchi, S. and Smith, T. 2009. Host and habitat specificities of Plasmodium species in African rainforest birds, *Journal of Tropical Ecology*, 25:439–447.
62. Dehghani, M. Valadan Zoej, M.J., Entezam, I., Mansourian, A., Saatchi, S. 2009. InSAR monitoring of progressive land subsidence in Neyshabour, northeast Iran. *Geophys. J. Int.*, doi: 10.1111/j.1365-246X.2009.04135.
63. Dehghani, M. Valadan Zoej, M.J, Saatchi, S. Biggs, J., Parsons, B. Wright, T. 2009. Radar Interferometry time series analysis of Mashhad subsidence. *J. Indian Soc. Remote Sens.* 37: 147-156.
64. Malhi, Y., Saatchi, S.S., Giardin, C., Aragao, L.E.O. 2009. The production, storage, and flow of carbon in Amazonian forests, in *Amazonia and Global Change*. Geophysical Monograph Series, 0\_029/2008GM000779.
65. Saatchi, S., Malhi, Y., Zutta, B., Buermann, W., Anderson, L. O., Araujo, A. M., ... & Ramírez, H. A. (2009). Mapping landscape scale variations of forest structure, biomass, and productivity in Amazonia. *Biogeosciences Discussions*, 6(3), 5461.
66. Mitchard, E., S.S. Saatchi, P. Meir, I.H. Woodhouse, G. Nangendo, N.S. Ribeiro, M. Williams, C. Ryan, & T.R. Feldpausch A universal relationship found between ALOS PALSAR L-band SAR and above-ground woody biomass in four African forest/woodland/savanna landscapes, *Geophysical Research Letters*, VOL. 36, L23401, doi:10.1029/2009GL040692.
67. Yu, Y., Saatchi, S., Heath, L. LaPoint, E., Myneni, R. Knyazikhin, Y. 2010. Regional distribution of forest height and biomass from multisensor data fusion: A case study in the state of Maine, *JGR Biogeosciences*, doi:10.1029/2009JG000995.
68. Thomassen, H., Buermann, W., Mila, B., Graham, C.H., Cameron, S.E., Schneider, C.J., Pollinger, J.P., Saatchi, S. Wayne, R.K., and Smith, T.B. 2009. Modeling environmentally associated morphological and genetic variation in a rainforest bird, and its application for conservation prioritization., *Evolutionary Applications*, ISSN 1752-4571.
69. Bonneaud, C., Sepil, I., Milá, B., Buermann, W., Pollinger, J., Sehgal, R. N., ... & Smith, T. B. (2009). The prevalence of avian Plasmodium is higher in undisturbed tropical forests of Cameroon. *Journal of Tropical Ecology*, 25(04), 439-447.
70. Shugart, H.H. Saatchi, S., and F. Hall, 2010. A Primer on the structure of forest and it measurements from space, *JGR, Biogeosciences*, doi:10.1029/2009JG000995.
71. Negron-Juarez, R. I., J. Q. Chambers, G. Guimaraes, H. Zeng, C. F. M. Raupp, D. M. Marra, G. H. P. M. Ribeiro, S. S. Saatchi, B. W. Nelson, and N. Higuchi. 2010. Widespread Amazon forest tree mortality from a single cross-basin squall line event, *Geophysical Research Letters*, doi:10.1029/2010GL043733.
72. Malhi, Y. Silman, M., Salinas, N., Bush, M., Meir, P., and Saatchi, S. 2010. Elevation gradients in the tropics: laboratories for ecosystem ecology and global change research. *Global Change Biology*, Vol. 16: 3171-3175.
73. Fuller, T. Henri A. Thomassen, Prime M. Mulembakani, Sara C. Johnston, James O. Lloyd Smith, Neville K. Kisalu, Timothee K. Lutete, Seth Blumberg, Joseph N. Fair, Nathan D. Wolfe, Robert L. Shongo, Pierre Formenty, Hermann Meyer, Linda L. Wright, Jean-Jacques Muyembe, Wolfgang Buermann, Sassan S. Saatchi, Emile Okitolonda, Lisa Hensley, Thomas B. Smith, and Anne W. Rimoin, 2010. Using Remote

Sensing to Map the Risk of Human Monkeypox Virus in the Congo Basin, *EcoHealth*, DOI: 10.1007/s10393-010-0355-5.

74. Fuller, T. L., Saatchi, S. S., Curd, E. E., Toffelmier, E., Thomassen, H. A., Buermann, W., ... & Smith, T. B. (2010). Mapping the risk of avian influenza in wild birds in the US. *BMC infectious diseases*, 10(1), 187.
75. Sehgal, R.N.M., W. Buermann, R. J. Harrigan, C. Bonneaud, C. Loiseau, A. Chasar, I. Sepil, G. Valkiūnas, T. Iezhova, S. Saatchi and T. B. Smith, 2010. Spatially explicit predictions of blood parasites in a widely distributed African rainforest bird, *Proc Roy Soc B*, doi: 10.1098/rspb.2010.1720.
76. Dehghani, M., Zoj, M.J.V., Entezam, I., Shemshaki, A., Saatchi, S. 2010. Interferometric measurements of ground surface subsidence induced by overexploitation of groundwater. *J. Appl. Remote Sens.* 4. doi:10.1117/1.3527999.
77. Lou, Y., Chien, S., Muellerschoen, R., & Saatchi, S. (2007, June). Autonomous disturbance detection and monitoring system with UAVSAR. In *NASA Earth Science Technology Conference*.
78. Harris, N. L., Saatchi, S. S., Hagen, S., Brown, S., Salas, W., Hansen, M. C., & Lotsch, A. (2010, December). New Estimate of Carbon Emissions from Land-Use Change. In *Forest Day, 16th Conference of the Parties (COP), Cancun, Mexico* (Vol. 5, p. 2010).
79. Saatchi, S. S. (2010). Synergism of optical and radar data for forest structure and biomass Sinergismo entre dados ópticos e de radar da estrutura da floresta e biomassa. *Ambiência*, 6(4), 151-166.
80. Bucini, G., Hanan, N. P., Boone, R. B., Smit, I. P., Saatchi, S., Lefsky, M. A., & Asner, G. P. (2010). Woody fractional cover in Kruger National Park, South Africa: remote-sensing-based maps and ecological insights. *Ecosystem function in savannas: measurement and modeling at landscape to global scales*, 219-238.

### 2011 Publications

81. Maniatis, D. Y. Malhi, L. Saint-André, D. Mollicone, N. Barbier, S. Saatchi, M. Henry, L. Teillier, M. Schwartzberg, L. White, E. Massard. 2011. Evaluating the potential of commercial forest inventory data to report on forest carbon stock and forest carbon stock changes for REDD+ under the UNFCCC, *International Journal of Forestry Research*, doi:10.1155/2011/134526.
82. Mitchard, E. T. A., Saatchi, S. S., Lewis, S. L., Feldpausch, T. R., Woodhouse, I. H., Sonké, B., ... & Meir, P. (2011). Measuring biomass changes due to woody encroachment and deforestation/degradation in a forest-savanna boundary region of central Africa using multi-temporal L-band radar backscatter. *Remote Sensing of Environment*, 115(11), 2861-2873.
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Harris, N. Hagen, S., Saatchi, S., et al. Attribution of Net Carbon Exchange by Disturbance Types Across Forest Lands of the Continental United States, Accepted for Publication in *Carbon Balance and Management*, 2016.

Garcia, M., Saatchi, S., Casas, A., et. al., Quantifying biomass consumption and carbon release from the California Rim fire by integrating airborne LiDAR and Landsat OLI data., Accepted for publication in *Journal of Geophysical Research, Biogeosciences*, 2016.

Garcia, M., Saatchi, S., Casas, A., et. al., Prefire forest canopy fuel estimation by integrating airborne LiDAR and Landsat OLI data: The California Rim fire case study, Accepted for publication in *Remote Sensing of Environment*.

### **Submitted Papers**

Yang, Y., Saatchi, S., Xu, L., et. al. Post-drought Switch of Amazon Forests from Carbon Sink to Source, Submitted to Nature Climate Change, 2016.

Meyer, V., Saatchi, S., Ferraz, A., et. al. Structure and Biomass of Forests Across Choco, Colombia, Submitted to Remote Sensing of Environment, 2016.

Meyer, V., Saatchi, S., Clark, D., et. al. Large Trees Explain Landscape Variations of Aboveground Biomass of Tropical Forests, Submitted to Ecological Applications, 2016.

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### **Book Chapters**

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### **Conference Papers & Presentations**

The list of over 500 conference presentations, seminars, and honorary lectures papers is available upon request.

### **Language Skills**

ENGLISH, PERSIAN, SPANISH, PORTUGUESE