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Education

- 2011–15** PhD in Forest Ecology, University of Cambridge, UK
Relating aboveground wood production to tree diversity in forest ecosystems
- 2009–10** MSc in Ecology, Evolution and Conservation, Imperial College London, UK
Graduated with Distinction and received Southwood Prize for best MSc dissertation
Climate and land use drive compositional changes in the flora of Scotland at distinct spatial scales
- 2006–09** BSc in Biological Sciences, University of Roma Tor Vergata, Italy
Graduated with 110/110 *cum laude*

Employment

- 2019 –** NERC Independent Research Fellow and Lecturer, University of Bristol, UK
- 2017–19** Research Scientist, CSIRO and Adjunct Research Fellow, University of Western Australia, Australia
- 2015–17** Postdoctoral Research Associate, University of Cambridge, UK
Biodiversity and land-use impacts on tropical ecosystem function (BALI) project

Publications

I have published 40 peer-reviewed papers, including ones in leading ecological and multidisciplinary journals such as *Science*, *Nature Communications*, *PNAS*, *Ecology Letters* and *Global Change Biology*. As of November 2019 these have been cited 1835 times (*h*-index = 21, based on Google Scholar metrics). Of these publications, 14 have been as first or co-first author. See my [Google Scholar](#) profile for up-to-date citation metrics. PDF copies of articles in review are available on request.

Peer-reviewed papers

- Kambach, S., Allan, E., Bilodeau-Gauthier, S., Haase, J., **Jucker, T.**, Kunstler, G., Müller, S., Nock, C., Paquette, A., van der Plas, F., Ratcliffe, S., Roger, F., Ruiz-Benito, P., Scherer-Lorenzen, M., Auge, H., Bouriaud, O., Castagnyrol, B., Coomes, D.A., Dahlgren, J., Gamfeldt, L., Jactel, H., Koricheva, J., Kändler, G., Lehtonen, A., Muys, B., Ponette, Q., Setiawan, N., Van de Peer, T., Verheyen, K., Wirth, K., Zavala, M.A. and Bruelheide, H. (2019) How do trees respond to species mixing in experimental compared to observational studies? **Ecology and Evolution**, 9, 11254–11265
- Bongalov, B., Burslem, D.F.R.P., **Jucker, T.**, Thompson, S.E.D., Rosindell, J., Swinfield, T., Nilus, R., Clewley, D., Phillips, O. and Coomes, D.A. (2019) Reconciling the contribution of niche and stochastic structuring of tropical forest diversity through the lens of imaging spectroscopy. **Ecology Letters**, 22, 1608–1619
- Scott, J. K., Batchelor, K.L., **Jucker, T** and Webber, B. L. (2019) Aerial photography and dendrochronology as tools for recreating invasion histories: do they work for bitou bush (*Chrysanthemoides monilifera subsp. rotundata*)? **Biological Invasions**, 21, 2983–2996
- Steidinger, B.S., Crowther, T.W., Liang, J., Nuland, M.E. Van, Werner, G.D.A., Reich, P.B., Nabuurs, G., De-Miguel, S., Zhou, M., Picard, N., Herault, B., Zhao, X., Zhang, C., Routh, D., Abegg, M., Yao, Y.A., Alberti, G., Zambrano, A.A., Alvarez-Davila, E., Alvarez-Loayza, P., Alves, L.F., Ammer, C., Antón-Fernández, C., Araujo-Murakami, A., Arroyo, L., Valerio Avitabile, V.A., Aymard, G., Baker, T., Bałazy, R., Banki, O., Barroso, J., Bastian, M., Bastin, J.-F., Birigazzi, L., Birnbaum, P., Bitariho, R., Boeckx, P.,

- Bongers, F., Bouriaud, O., Brancalion, P., Brandl, S., Brearley, F.Q., Brienen, R., Broadbent, E., Bruelheide, H., Bussotti, F., Gatti, R.C., Cesar, R., Cesljar, G., Chazdon, R., Chen, H.Y.H., Chisholm, C., Cienciala, E., Clark, C.J., Clark, D., Colletta, G., Condit, R., Coomes, D., Valverde, F.C., Corral-Rivas, J.J., Crim, P., Cumming, J., Dayanandan, S., Gasper, A.L. de, Decuyper, M., Derroire, G., DeVries, B., Djordjevic, I., Iêda, A., Dourdain, A., Obiang, N.L.E., Enquist, B., Eyre, T., Fandohan, A.B., Fayle, T.M., Feldpausch, T.R., Finér, L., Fischer, M., Fletcher, C., Fridman, J., Frizzera, L., Gamarra, J.G.P., Gianelle, D., Glick, H.B., Harris, D., Hector, A., Hemp, A., Hengeveld, G., Herbohn, J., Herold, M., Hillers, A., Coronado, E.N.H., Huber, M., Hui, C., Hyun, K.J., Ibanez, T., Il, B.J., Imai, N., Jagodzinski, A.M., Jaroszewicz, B., Johannsen, V., Joly, C.A., **Jucker, T.**, Karminov, V., Kartawinata, K., Kearsley, E., Kenfack, D., Kennard, D., Kepfer-Rojas, S., Keppel, G., Khan, M.L., Killeen, T., Kim, H.S., Kitayama, K., Köhl, M., Korjus, H., Kraxner, F., Laarmann, D., Lang, M., Lewis, S., Lu, H., Lukina, N., Maitner, B., Malhi, Y., Marcon, E., Marimon, B., Marimon-Junior, B.H., Marshall, A.R., Martin, E., Martynenko, O., Meave, J.A., Melo-Cruz, O., Mendoza, C., Merow, C., Mendoza, A.M., Moreno, V., Mukul, S.A., Mundhenk, P., Nava-Miranda, M.G., Neill, D., Neldner, V., Nevenic, R., Ngugi, M., Niklaus, P., Oleksyn, J., Ontikov, P., Ortiz-Malavasi, E., Pan, Y., Paquette, A., Gutierrez, A.P., Parfenova, E., Park, M., Parren, M., Parthasarathy, N., Peri, P.L., Pfautsch, S., Phillips, O., Piedade, M.T., Piotto, D., Pitman, N.C.A., Polo, I., Poorter, L., Poulsen, A.D., Poulsen, J.R., Pretzsch, H., Arevalo, F.R., Restrepo-Correa, Z., Rodeghiero, M., Rolim, S., Roopsind, A., Rovero, F., Rutishauser, E., Saikia, P., Saner, P., Schall, P., Schelhaas, M.-J., Schepaschenko, D., Scherer-Lorenzen, M., Schmid, B., Schöngart, J., Searle, E., Seben, V., Serra-Diaz, J.M., Shvidenko, A., Silva-Espejo, J., Silveira, M., Singh, J., Sist, P., Slik, F., Sonké, B., Souza, A.F., Stereńczak, K., Svenning, J.-C., Svoboda, M., Targhetta, N., Tchebakova, N., Steege, H. ter, Thomas, R., Tikhonova, E., Umunay, P., Usoltsev, V., Valladares, F., Plas, F. van der, Do, T. Van, Martinez, R.V., Verbeeck, H., Viana, H., Vieira, S., Gadow, K. von, Wang, H.-F., Watson, J., Westerlund, B., Wiser, S., Wittmann, F., Wortel, V., Zagt, R., Zawila-Niedzwiecki, T., Zhu, Z.-X., Zo-Bi, I.C. and Peay, K.G. (2019) Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. **Nature**, 569, 404–408
5. Yuan, Z., Ali, A., **Jucker, T.**, Ruiz-Benito, P., Wang, S., Jiang, L., Wang, X., Lin, F., Ye, J., Hao, Z. and Loreau, M. Multiple abiotic and biotic pathways shape biomass demographic processes in temperate forests (2019). **Ecology**, 100, e02650
 6. Dalponte, M., **Jucker, T.**, Liu, S., Frizzera, L. and Gianelle, D. (2019) Characterizing forest carbon dynamics using multi-temporal LiDAR data. **Remote Sensing of Environment**, 224, 412–420
 7. Malavasi, M., Barták, V., **Jucker, T.**, Acosta, A.T.R., Carranza, M.L. and Bazzichetto, M. (2019) Strength in numbers: combining multi-source remotely sensed data to model plant invasions in coastal dune ecosystems. **Remote Sensing**, 11, 275
 8. Baeten, L., Helge, B., van der Plas, F., Kambach, S., Ratcliffe, S., **Jucker, T.**, Allan, E., Ampoorter, E., Barbaro, L., Bastias, C.C., Bauhus, J., Benavides, R., Bonal, D., Bouriaud, O., Bussotti, F., Carnol, M., Castagneyrol, B., Charbonnier, Y., Čečko, E., Coomes, D.A., Dahlgren, J., Dawud, S.M., De Wandeler, H., Domisch, T., Finér, L., Fischer, M., Fotelli, M., Gessler, A., Grossiord, C., Guyot, V., Hättenschwiler, S., Jactel, H., Jaroszewicz, B., Joly, F.-X., Koricheva, J., Lehtonen, A., Müller, S., Muys, B., Nguyen, D., Pollastrini, M., Radoglou, K., Raulund-Rasmussen, K., Ruiz-Benito, P., Selvi, F., Stenlid, J., Valladares, F., Vesterdal, L., Verheyen, K., Wirth, C., Zavala, M.A. and Scherer-Lorenzen M. (2019) Identifying the tree species compositions that maximize ecosystem functioning in European forest. **Journal of Applied Ecology**, 56, 733–744
 9. **Jucker, T.**, Wintle, B., Shackelford, G., Bocquillon, P., Geffert, J.L., Kasoar, T., Kovacs, E., Mumby, H.S., Orland, C., Schleicher, J., Tew, E., Zabalá, A., Amano, T., Bell, A., Bongalov, B., Chambers, J.M., Corrigan, C., Durán, A.P., Duvic-Paoli, L.A., Emilson, C., Fonseca da Silva, J., Garnett, E.E., Green, E.J., Guth, M.K., Hacket-Pain, A., Hinsley, A., Igea, J., Kunz, M., Luke, S.H., Lynam, W., Martin, P.A., Nunes, M.H., Ockendon, N., Pavitt, A., Payne, C.L.R., Plutshack, V., Rademacher, T.T., Robertson, R.J., Rose, D.C., Serban, A., Simmons, B.I., Szkokan-Emilson, E.J., Tayleur, C., Wordley C.F.R. and Mukherjee, N. (2018) Ten-year assessment of the 100 priority questions for global biodiversity conservation. **Conservation Biology**, 32, 1457–1463

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11. **Jucker, T.**, Hardwick, S.R., Both, S., Elias, D.M.O., Ewers, R.M., Milodowski, D.T., Swinfield, T. and Coomes, D.A. (2018) Canopy structure and topography jointly constrain the microclimate of human-modified tropical landscapes. **Global Change Biology**, 24, 5243–5258
12. Mitchell, S.L., Edwards, D.P., Bernard, H., Coomes, D., **Jucker, T.**, Davies, Z.G. and Struebig, M.J. (2018) Riparian reserves help protect forest bird communities in oil palm dominated landscapes. **Journal of Applied Ecology**, 55, 2744–2755
13. **Jucker, T.**, Asner, G.P., Dalponte, M., Brodrick, P., Philipson, C.D., Vaughn, N., Brelsford, C., Burslem, D.F.R.P., Deere, N.J., Ewers, R.M., Kvasnica, J., Lewis, S.L., Malhi, Y., Milne, S., Nilus, R., Pfeifer, M., Phillips, O., Qie, L., Renneboog, N., Reynolds, G., Riutta, T., Struebig, M.J., Svátek, M., Arn Teh, Y., Turner E.C. and Coomes, D.A. (2018) Estimating aboveground carbon density and its uncertainty in Borneo's structurally complex tropical forests using airborne laser scanning. **Biogeosciences**, 15, 3811–3830
14. **Jucker, T.**, Bongalov, B., Dalponte, M., Burslem, D.F.R.P., Lewis, S.L., Nilus, R., Phillips, O., Qie, L. and Coomes, D.A. (2018) Topography shapes the structure, composition and function of tropical forest landscapes. **Ecology Letters**, 21, 989–1000
15. van der Plas, F., Ratcliffe, S., Ruiz-Benito, P., Scherer-Lorenzen, M., Verheyen, K., Wirth, C., Zavala, M.A., Ampoorter, E., Baeten, L., Barbaro, L., Bastias, C.C., Bauhus, J., Benavides, R., Benneter, A., Bonal, D., Bouriaud, O., Bruelheide, H., Bussotti, F., Carnol, M., Castagneyrol, B., Charbonnier, Y., Cornelissen, J.H.C., Dahlgren, J., Checko, E., Coppi, A., Dawud, S.M., Deconchat, M., De Smedt, P., De Wandeler, H., Domisch, T., Finér, L., Fotelli, M., Gessler, A., Granier, A., Grossiord, C., Guyot, V., Haase, J., Hättenschwiler, S., Jactel, H., Jaroszewicz, B., Joly, F., **Jucker, T.**, Kambach, S., Kaendler, G., Kattge, J., Koricheva, J., Kunstler, G., Lehtonen, A., Liebergesell, M., Manning, P., Milligan, H., Müller, S., Muys, B., Nguyen, D., Nock, C., Ohse, B., Paquette, A., Peñuelas, A., Pollastrini, M., Radoglou, K., Raulund-Rasmussen, K., Roger, F., Seidl, R., Selvi, F., Stenlid, J., Valladares, F., van Keer, J., Vesterdal, L., Fischer, M., Gamfeldt, L. and Allan, E. (2018) Continental mapping of forest ecosystem functions reveals widespread synergies. **Ecology Letters**, 21, 31–42
16. Asner, G.P., Brodrick, P., Philipson, C.D., Vaughn, N., Martin, R.E., Knapp, D.E., Heckler, J., Evans, L., **Jucker, T.**, Goossens, B., Stark, D.J., Reynolds, G., Ong, R., Renneboog, N., Kugan, F. and Coomes, D.A. (2018) Mapping imprints of forest use on carbon stocks to advance ecosystem protection and recovery in Malaysian Borneo. **Biological Conservation**, 271, 289–310
17. **Jucker, T.**, Grossiord, C., Bonal, D., Bouriaud, O., Gessler, A. and Coomes, D.A. (2017) Detecting the fingerprint of drought across Europe's forests: do carbon isotope ratios and stem growth rates tell similar stories? **Forest Ecosystems**, 4, 1–11
18. Ratcliffe, S., Wirth, C., **Jucker, T.**, van der Plas, F., Scherer-Lorenzen, M., Verheyen, K., Allan, E., Benavides, R., Bruelheide, H., Ohse, B., Paquette, A., Ampoorter, E., Bastias, C.C., Bauhus, J., Bonal, D., Bouriaud, O., Bussotti, F., Carnol, M., Castagneyrol, B., Checko, E., Muhie Dawud, S., De Wandeler, H., Domisch, T., Finér, L., Fischer, M., Fotelli, M., Gessler, A., Granier, A., Grossiord, C., Guyot, V., Haase, J., Hättenschwiler, S., Jactel, H., Jaroszewicz, B., Joly, F-X., Kambach, S., Kolb, S., Koricheva, J., Liebergesell, M., Milligan, H., Müller, S., Muys, B., Nguyen, D., Nock, C., Pollastrini, M., Purschke, O., Radoglou, K., Raulund-Rasmussen, K., Roger, F., Ruiz-Benito, P., Seidl, R., Selvi, F., Seiferling, I., Stenlid, J., Valladares, F., Vesterdal, L. and Baeten, L. (2017) Biodiversity and ecosystem functioning relations in European forests depend on environmental context. **Ecology Letters**, 20, 1414–1426
19. Coomes, D.A.[†], Dalponte, M.[†], **Jucker, T.**[†], Asner, G.P., Banin, L.S., Burslem, D.F.R.P., Lewis, S.L., Nilus, R., Phillips, O., Phua, M., and Qie, L. (2017) Area-based vs tree-centric approaches to mapping forest carbon in Southeast Asian forests with airborne laser scanning data. **Remote Sensing of Environment**, 194, 77–88

[†]Authors contributed equally to the writing of this paper. Web of Science 'Highly Cited Paper'.

20. Del Vecchio, S., **Jucker, T.**, Carboni, M. and Acosta, A.T.R. (2017) Linking plant communities on land and at sea: The effects of *Posidonia oceanica* wrack on the structure of dune vegetation. **Estuarine, Coastal and Shelf Science**, 184, 30–36
21. **Jucker, T.**, Caspersen, J., Chave, J., Antin, C., Barbier, N., Bongers, F., Dalponte, M., van Ewijk, K.Y., Forrester, D.I., Haeni, M., Higgins, S.I., Holdaway, R.J., Iida, Y., Lorimer, C., Marshall, P.L., Momo, S., Moncrieff, G.R., Ploton, P., Poorter, L., Rahman, K.A., Schlund, M., Sonké, B., Sterck, F.J., Trugman, A.T., Usoltsev, V.A., Vanderwel, M.C., Waldner, P., Wedeux, B.M.M., Wirth, C., Wöll, H., Woods M., Xiang W., Zimmermann, N.E. and Coomes, D.A. (2017) Allometric equations for integrating remote sensing imagery into forest monitoring programs. **Global Change Biology**, 23, 177–190
Web of Science ‘Highly Cited Paper’.
22. Liang, J., Crowther, T.W., Picard, N., Wiser, S., Zhou, M., Alberti, G., Schulze, E.-D., McGuire, D., Bozzato, F., Pretzsch, H., De-Miguel, S., Paquette, A., Hérault, B., Scherer-Lorenzen, M., Barrett, C.B., Glick, H.B., Hengeveld, G.M., Nabuurs, G.J., Pfautsch, S., Viana, H., Vibrans, A.C., Ammer, C., Schall, P., Verbyla, D., Tchebakova, N., Fischer, M., Watson, J. V., Chen, H.Y.H., Lei, X., Schelhaas, M.-J., Lu, H., Gianelle, D., Parfenova, E.I., Salas, C., Lee, E., Lee, B., Kim, H.S., Bruelheide, H., Coomes, D.A., Piotta, D., Sunderland, T., Schmid, B., Gourlet-Fleury, S., Sonké, B., Tavani, R., Zhu, J., Brandl, S., Vayreda, J., Kitahara, F., Searle, E.B., Neldner, V.J., Ngugi, M.R., Baraloto, C., Frizzera, L., Balazy, R., Oleksyn, J., Zawila-Niedzwiecki, T., Bouriaud, O., Bussotti, F., Finér, L., Jaroszewicz, B., **Jucker, T.**, Valladares, F., Jagodzinski, A.M., Peri, P.L., Gonmadje, C., Marthy, W., O’Brien, T., Martin, E.H., Marshall, A., Rovero, F., Bitariho, R., Niklaus, P.A., Alvarez-Loayza, P., Chamuya, N., Valencia, R., Mortier, F., Wortel, V., Engone-Obiang, N.L., Ferreira, L. V., Odeke, D.E., Vasquez, R.M., Lewis, S.L. and Reich, P.B. (2016) Positive biodiversity–productivity relationship predominant in global forests. **Science**, 354, aaf8957
Web of Science ‘Highly Cited Paper’.
23. Prisco, I., Carboni, M., **Jucker, T.** and Acosta, A.T.R. (2016) Temporal changes in the vegetation of Italian coastal dunes: Identifying winners and losers through the lens of functional traits. **Journal of Applied Ecology**, 53, 1533–1542
24. **Jucker, T.**, Sanchez, A.D., Lindsell, J.A., Allen, H.D., Amable, G.S. and Coomes, D.A. (2016) Drivers of aboveground wood production in a lowland tropical forest of West Africa: teasing apart the roles of tree density, tree diversity, soil phosphorus and historical logging. **Ecology and Evolution**, 6, 4004–4017
25. van der Plas, F., Manning, P., Allan, E., Scherer-Lorenzen, M., Verheyen, K., Wirth, C., Zavala, M.A., Hector, A., Ampoorter, E., Baeten, L., Barbaro, L., Bauhus, J., Benavides, R., Benneter, A., Berthold, F., Bonal, D., Bouriaud, O., Bruelheide, H., Bussotti, F., Carnol, M., Castagneyrol, B., Charbonnier, Y., Coomes, D.A., Coppi, A., Bastias, C.C., Dawud, S.M., Wandeler, H. De, Domisch, T., Finer, L., Gessler, A., Granier, A., Grossiord, C., Guyot, V., Hattenschwiler, S., Jactel, H., Jaroszewicz, B., Joly, F.-X., **Jucker, T.**, Koricheva, J., Milligan, H., Muller, S., Muys, B., Nguyen, D., Pollastrini, M., Raulund-Rasmussen, K., Selvi, F., Stenlid, J., Valladares, F., Vesterdal, L., Zielinski, D. and Fischer, M. (2016) Jack-of-all-trades effects drive biodiversity–ecosystem multifunctionality relationships in European forests. **Nature Communications**, 7, 1–11
26. Dalponte, M., **Jucker, T.**, Burslem, D.F.R.P., Lewis, S.L., Nilus, R., Phillips, O., Qie, L. and Coomes, D.A. (2016) Aboveground biomass estimation in tropical forests at single tree level with ALS data. **IEEE International Geoscience and Remote Sensing Symposium**, doi: 10.1109/IGARSS.2016.7730390
27. van der Plas, F., Manning, P., Soliveres, S., Allan, E., Scherer-Lorenzen, M., Verheyen, K., Wirth, C., Zavala, M.A., Ampoorter, E., Baeten, L., Barbaro, L., Bauhus, J., Benavides, R., Benneter, A., Bonal, D., Bouriaud, O., Bruelheide, H., Bussotti, F., Carnol, M., Castagneyrol, B., Charbonnier, Y., Coomes, D.A., Coppi, A., Bastias, C.C., Dawud, S.M., De Wandeler, H., Domisch, T., Finér, L., Gessler, A., Granier, A., Grossiord, C., Guyot, V., Hattenschwiler, S., Jactel, H., Jaroszewicz, B., Joly, F., **Jucker, T.**, Koricheva, J., Milligan, H., Mueller, S., Muys, B., Nguyen, D., Pollastrini, M., Ratcliffe, S., Raulund-Rasmussen, K., Selvi, F., Stenlid, J., Valladares, F., Vesterdal, L., Zielinski, D. and Fischer, M. (2016) Biotic homogenization can decrease landscape-scale forest multifunctionality. **Proceedings of the National Academy of Sciences**, 113, 3557–3562
28. **Jucker, T.**, Avacaritei, D., Bărnoaiea, I., Duduman, G., Bouriaud, O. and Coomes, D.A. (2016). Climate modulates the effects of tree diversity on forest productivity. **Journal of Ecology**, 104, 388–398

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30. **Jucker, T.**, Bouriaud, O., Avacaritei, D. and Coomes, D.A. (2014) Stabilizing effects of diversity on aboveground wood production in forest ecosystems: linking patterns and processes. **Ecology Letters**, 17, 1560–1569
31. Coomes, D.A., Flores, O., Holdaway, R., **Jucker, T.**, Lines, E.R. and Vanderwel, M.C. (2014) Wood productivity responses to climate change will depend critically on forest composition and structure. **Global Change Biology**, 20, 3632–3645
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33. Grossiord, C., Granier, A., Gessler, A., **Jucker, T.** and Bonal, D. (2014) Does drought influence the relationship between biodiversity and ecosystem functioning in boreal forests? **Ecosystems**, 17, 394–404
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36. Acosta, A.T.R., **Jucker, T.**, Prisco, I. and Santoro, R. (2013) Passive recovery of Mediterranean coastal dunes following limitations to human trampling. **Restoration of Coastal Dunes** (eds Martínez M.L, Gallego-Fernández J.B. and Hesp P.A.), pp. 187–98. Springer, Berlin
37. **Jucker, T.** and Coomes, D.A. (2012) Comment on “Plant species richness and ecosystem multifunctionality in global drylands”. **Science**, 337, 155
38. Santoro, R., **Jucker, T.**, Carboni, M. and Acosta, A.T.R. (2012) Patterns of plant community assembly in invaded and non-invaded communities along a natural environmental gradient. **Journal of Vegetation Science**, 23, 483–494
39. Santoro, R., **Jucker, T.**, Prisco, I., Carboni, M., Battisti, C. and Acosta, A.T.R. (2012) Effects of trampling limitation on coastal dune plant communities. **Environmental Management**, 49, 534–542
40. Santoro, R., **Jucker, T.**, Carranza, M.L. and Acosta, A.T.R. (2011) Assessing the effects of *Carpobrotus* invasion on coastal dune soils. Does the nature of the invaded habitat matter? **Community Ecology**, 12, 234–240

Other publications

41. **Jucker, T.**, Caspersen, J., Chave, J., Antin, C., Barbier, N., Bongers, F., Dalponte, M., van Ewijk, K.Y., Forrester, D.I., Haeni, M., Higgins, S.I., Holdaway, R.J., Iida, Y., Lorimer, C., Marshall, P.L., Momo, S., Moncrieff, G.R., Ploton, P., Poorter, L., Rahman, K.A., Schlund, M., Sonké, B., Sterck, F.J., Trugman, A.T., Usoltsev, V.A., Vanderwel, M.C., Waldner, P., Wedeux, B.M.M., Wirth, C., Wöll, H., Woods M., Xiang W., Zimmermann, N.E. and Coomes, D.A. (2016) Global Allometric Database. **Figshare**.

42. Dalponte, M., Frizzera, L., Ørka, H.O., **Jucker, T.**, Gobakken, T., Næsset, E. and Gianelle, D. (2016) Predicting the aboveground biomass of individual trees using remote sensing data and new allometric models: a case study in Norway. **Proceedings Book 7th Edition of the International Scientific Conference ForestSAT 2016**, pp. 181–183
43. **Jucker, T.** (2015) Relating aboveground wood production to tree diversity in forest ecosystems. **PhD thesis**, University of Cambridge
44. **Jucker, T.** and Coomes, D.A. (2013) *Journal of Ecology* Editor's Choice commentary 101:5
45. **Jucker, T.** (2010) Climate and land use drive compositional changes in the flora of Scotland at distinct spatial scales. **MSc thesis**, Imperial College London

Funding

- 2019** *Mapping of mature woodlands in Ngadju lands for fire management.* NRM Community Stewardship Grant (£141,800) – Co-Investigator
- 2019** *Forecasting the impacts of drought on human-modified tropical forests by integrating models with data.* NERC Independent Research Fellowship (£766,965) – Principal Investigator
- 2019** *Resilience of human-modified tropical forests to climate change.* Imperial College London Research Fellowship (£200,450)[†] – Principal Investigator
[†]Declined
- 2018** *Charactering the impact of grazing by native macropods on the structure of Australia's temperate woodlands using UAV LiDAR.* Ignition Grant, Australian National University (£13,500) – Co-Investigator
- 2018** *Developing remote sensing approaches for predicting and mitigating biodiversity loss in intensifying production landscapes.* Funding for PhD studentship top up scholarship from CSIRO (£29,000) – Principal Investigator
- 2017** Competitive capital expenditure funding from CSIRO to purchase integrated UAV LiDAR platform. (£152,000) – Principal Investigator
- 2015** Cambridge Philosophical Society Studentship (£2,500)
- 2014** *Scaling biodiversity – ecosystem functioning relationships.* Funding for workshop through the Synthesis Centre for Biodiversity Sciences (sDiv) at the German Centre for Integrative Biodiversity Research (iDiv) (£13,700) – Co-Investigator
- 2012–13** College Senior Scholarship, Fitzwilliam College, University of Cambridge (£1,000)
- 2012** *Getting the measure of forests: applications of airborne LiDAR to the study of forest dynamics in Europe.* Research grant from NERC ARF to acquire airborne LiDAR and hyperspectral imagery over FunDivEUROPE study sites in Italy – Principal Investigator
- 2011–14** Fieldwork travel bursary, Fitzwilliam College, University of Cambridge (£1,200)
- 2011** *Coastal dune species and habitats in the face of climate change.* Research grant from the Italian institute of research and environmental protection (£2,000) – Co-Investigator

Honours and awards

- 2017** Australian Academy of Science travel award, Science at the Shine Dome, Canberra, Australia
- 2016** President's Prize for best presentation at the Remote Sensing and Photogrammetry Society's annual conference, Nottingham, UK
- 2015** Harper Prize, highly commended for best paper by young author in *Journal of Ecology*
- 2015** Anne Keymer Student Talk Prize, Runner-up for best presentation by postgraduate student at the BES–SFE joint annual meeting, Lille, France

- 2013–14** Award for best departmental student poster and seminar, Department of Plant Sciences, University of Cambridge, UK
- 2010** Southwood prize for best MSc dissertation in Ecology, Evolution and Conservation, Imperial College London, UK

Working groups

- 2019** *Microclimate ecology of human-modified tropical forests*. Science at SAFE 2019 meeting, Imperial College London, UK – Workshop lead
- 2018** CSIRO LiDAR Community of Practice – Working group co-lead
- 2018** Sabah REDD+ MRV Technical Working Group – Workshop co-lead
- 2018** CSIRO Early- and Mid-Career Researcher (EMCR) working group – Committee member
- 2017** CEOS Land Product Validation Focus Area on Biomass – Writing committee
- 2016** **Global Tree Allometric Database** working group – Project lead
- 2016** Global Forest Biodiversity Initiative (GFBI) – Member and data contributor
- 2016** *Revisiting the 100 priority questions for global biodiversity conservation: how far have we come and where lies the road ahead?* University of Cambridge Conservation Research Institute (UCCRI) early-career working group – Project lead
- 2014** *Scaling biodiversity – ecosystem functioning relationships*. Synthesis Centre for Biodiversity Sciences (sDiv), Leipzig, Germany – Workshop participant
- 2014** *Adaptability and stability of European forest ecosystems in relation to tree species diversity*. University of Freiburg, Germany – Workshop participant

Selected talks

- 2019** *Good things take time – diversity effects on tree growth strengthen during stand development in regenerating Boreal forests*. British Ecological Society (BES) annual meeting, Belfast, UK
- 2018** *Taking the temperature of human-modified tropical forest landscapes from a mile up using LiDAR*. Association of Tropical Biology and Conservation (ATBC) annual meeting, Kuching, Malaysia
- 2018** *Forest ecology from a mile up: what does remote sensing have to offer?* University of Western Australia, School of Biological Sciences, Australia
- 2016–17** *Topography shapes the structure, composition and function of tropical forest landscapes*.
→ Global Forest Biodiversity Initiative (GFBI) inaugural symposium, Beijing, China
→ Remote Sensing and Photogrammetry Society's annual conference, Nottingham, UK
→ British Ecological Society (BES) annual meeting, Liverpool, UK
- 2016** *Revisiting the 100 priority questions for global biodiversity conservation: how far have we come and where lies the road ahead?* University of Cambridge Conservation Research Institute (UCCRI), Cambridge, UK
- 2015** *Relating diversity and productivity in forest ecosystems*
→ Tropical Forest Ecology meeting, Leeds, UK
→ Earth System Science Doctoral Training Partnerships (DTP) meeting, Cambridge, UK
→ FunDivEUROPE annual meeting, Copenhagen, Denmark
- 2014** *Canopy packing in mixed-species forests*. BES–SFE joint annual meeting, Lille, France
- 2014** *Stabilizing effects of diversity on productivity in forests: patterns and processes*
→ German Centre for Integrative Biodiversity Research (iDiv), Leipzig, Germany
→ Forest resilience workshop, University of Freiburg, Germany

- 2013** *Complementarity among functional groups enhances wood production in diverse forest stands.* 11th INTECOL Congress – Ecology: Into the next 100 years, London, UK
- 2013** *Quantifying stand-level above-ground wood production using tree ring data.* FunDivEUROPE annual meeting, Florence, Italy
- 2012** *Are diverse forests more productive?* BES annual meeting, Birmingham, UK
- 2010** *Are changes in climate and land use affecting plant assemblages at different spatial scales? Evidence from the flora of Scotland.* Departmental seminar, University of Roma Tre, Italy

Teaching and mentoring

Students supervised

- 2019** William Johnson, MSc, University of Bristol
- 2018–** Shukhrat Shokirov, PhD, Australian National University (co-supervised with Dr. Kara Youngentob)

Teaching

- 2017–18** School of Biological Sciences undergraduate course. Guest lecturer for the *Introduction to Ecology* and the *Plant Diversity and Evolution* modules. University of Western Australia, Australia
- 2015–16** Plant Sciences undergraduate course. Six lectures as part of the *Dynamics, history and phylogeny of vegetation* module. University of Cambridge, UK
- 2015–16** Zoology undergraduate course. Three lectures as part of the *Conservation Science* module. University of Cambridge, UK
- 2014–15** Plant Sciences undergraduate course. Two lectures as part of the *Dynamics, history and phylogeny of vegetation* module. University of Cambridge, UK
- 2015** *Linear models and their extensions in R.* Three day course consisting of six taught and six practical classes targeted at graduate students in the biological sciences. Guest lecturer at University of Roma Tre, Italy

Demonstrating

- 2012–14** Mathematical Biology undergraduate course. Introduction to Matlab and R. University of Cambridge, UK
- 2012–14** Plant and Microbial Sciences undergraduate course. Analysis of scientific data in R. University of Cambridge, UK
- 2011–15** Plant Sciences undergraduate course. Dynamics, history and phylogeny of vegetation module. University of Cambridge, UK
- 2011** Biodiversity and Ecosystem Management MSc course. Statistical analysis of ecological data module. University of Roma Tre, Italy

Professional services and affiliations

Memberships and editorial roles

- 2018–** Review Editor for *Frontiers in Forests and Global Change*
- 2017–** Associate Editor for *Journal of Ecology*
- 2017–** Associate Editor for *Remote Sensing in Ecology and Conservation*
- 2017–** Member of the Association for Tropical Biology and Conservation (ATBC)
- 2012–** Member of the British Ecological Society (BES)

Journal peer-review

I have reviewed papers for more than 30 peer-reviewed journals, including ones submitted to: Science, Nature Communications, Ecology Letters, Global Change Biology, Global Ecology & Biogeography, Proceedings of the Royal Society B, Journal of Applied Ecology, Journal of Ecology, New Phytologist, Ecology, Ecography, Ecological Applications, Remote Sensing of Environment, Scientific Reports, Diversity and Distributions, Oecologia, Ecosystems, Applied Vegetation Science, Current Forestry Reports, Ecological Indicators, Environmental and Experimental Botany, Forest Ecology and Management, Forestry: An International Journal of Forest Research, Forests, Forest Ecosystems, Geoscience and Remote Sensing Letters, IEEE J-STARS, Journal of Vegetation Science, International Journal of Applied Earth Observation and Geoinformation, Neobiota, PLoS ONE, Remote Sensing, Scientific Data and Trees – Structure and Function.

Grant review

I have reviewed grant proposals for the National Science Foundation (NSF), the Natural Environmental Research Council (NERC) and the Estonian Research Council.

Thesis examiner

Manuele Bazzichetto (PhD, University of Molise, Italy)