Serajis Salekin

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Research Foci

Forest plant ecology and dynamics | Forest growth and yield modelling | Plant physiology and eco-physiology | Silviculture | Disturbances vs. stand development | Climate change adaptation of trees.

Education

2019	PhD in Forestry, New Zealand school of Forestry, University of Canterbury, New Zealand. *Concentration:* Growth and yield modelling | Statistical modelling | Silviculture | Eco-physiology | Geo-spatial analysis | Soil-science
2014	Erasmus Mundus MSc** in Mediterranean forestry and Natural Resources Management (MEDfOR). University of Lleida, Spain; University of Lisbon, Portugal; University of Valladolid, Spain; University of Padova, Italy.
2012	Msc in Forestry, Khulna University, Bangladesh
2010	BSc (Hons.) * in Forestry, Khulna University, Bangladesh

***Academic distinction*

***Multiple degrees*

Appointments

2023- Present	Senior forest scientist at New Zealand Forest Research Institute (Scion Ltd.), New Zealand.
2020-2022	Forest scientist, Forest ecophysiological modeler at New Zealand Forest Research Institute (Scion Ltd.), New Zealand.
2019-2020	Research assistant at New Zealand School of Forestry, University of Canterbury, Christchurch, New Zealand.
2014	Graduate research student at Catalan Forest Science Centre (CTFC), Solsona, Spain.
2013	Visiting researcher (Intern.) at the CNRS-Ecotron facilities in Montpellier, France. Offered by Hawkesbury Institute for the Environment, University of Western Sydney, Australia.

Publications and Talks

ORCID: 0000-0002-3037-1721

	No. of publications	***times cited***	***h-index***	***i10-index***
Web of Science	22	525	10	
Scopus	24	627	10	
Google scholar	38	1013	14	16

Peer-review Publications
(* corresponding author; ** featured / highly cited; † in the news)

In preparation

1. ***Salekin, S.** (In Preparation). Climatic and topographic gradients alternate self-thinning of New Zealand's alternative plantation forest tree species.

In Review

2. Zhu, H., Meason. F. D., **Salekin, S.**, Hu, W., Lad, P., Xue, J. (In review). Spatiotemporal variations of soil volumetric water content at different depths in forest catchments.
3. White, D., Palma, J. N., **Salekin, S.**, Meason, D. F., Battaglia, M., Dawes, W., Yang, J., Dudley, B., Dempster, A., Griffiths, J., Balocchi, F. C., Frampton, M., Tomás, A., Ramirez, P. (In review). A novel water balance in CABALA to improve estimates of growth and water balance of *Pinus radiata* (D. Don) plantations.
4. Thales, A. P. W., Wang, Y., **Salekin, S.**, Meason, D. (In review). A theoretical framework for forestry risk mitigation under climate change scenarios based on fuzzy portfolio selection.
5. ***Salekin, S.,** Steward, G. A., Roschak, C. (In review). Development of height-diameter model for New Zealand grown tōtara (*Podocarpus totara* G. Benn. D. Don).
6. Cassales, G. W., **Salekin, S.**, Lim, N., Meason, D., Bifet, A., Pfahringer, B., Frank, E. (In review). A comparative study of three state-of-the-art machine learning algorithms for predicting tree stem radius measured by dendrometer: A case study.
7. ***Salekin, S.**, Bloomberg, M., Xi, B., Liu, J., Liu, Y., Li, D. and Mason, E. G. (In Review). Hybrid ecophysiological growth model for *Populus tomentosa* plantation in northern China.

Published

8. **†*Salekin, S.**, Pont, D., Dickinson, Y., Amarasena, S. (2024). Spatially explicit individual tree height growth models from bi-temporal aerial laser scanning. *Remote sensing*, 16, 2270. https://doi.org/10.3390/rs16132270
9. Zhu, H., Meason. F. D., **Salekin, S.**, Hu, W., Lad, P., Jing, Y., Xue, J. (2024). Time stability of soil volumetric water content and its optimal sampling design in contrasting forest catchments. *Journal of Hydrology*, 636, 131344. https://doi.org/10.1016/j.jhydrol.2024.131344
10. **†*Salekin, S.**, Dickinson, Y., Bloomberg, M., Meason, D. F. (2024). Carbon sequestration potential of plantation forests in New Zealand – no single tree species is universally best. *Carbon Balance and Management*, 19 (11). https://doi.org/10.1186/s13021-024-00257-1
11. ***Salekin, S.**, Hossain, M. N., Alam, M. A., Limon, S. H., Rahman, M. S. (2023). Inter-specific competition between seeds and seedlings of two confamilial tropical trees. *Community Ecology*. https://doi.org/10.1007/s42974-023-00165-3
12. ***Salekin, S.**, Lad, P., Morgenroth, J., Dickinson, Y. L., Meason, D. F. (2023). Uncertainty in primary and secondary topographic attributes is caused by digital elevation model spatial resolution. *Catena*, 231 (107320). https://doi.org/10.1016/j.catena.2023.107320
13. Lin, Y., **Salekin, S.**, and Meason, D. F. (2023). Modelling diameter growth increments of less commonly planted tree species in New Zealand: Insights from a machine learning species distribution model approach. *Forestry: An International Journal of Forest Research*.96(1, 87-103). https://doi.org/10.1093/forestry/cpac037
14. Sultana, N., Limon, S. H., Rahman, M. S., Akhter, A., ***Salekin, S.**, Meason, D. F., Bloomberg, M. (2021). Germination and growth responses to water stress of three agroforestry tree species

from Bangladesh. *Environmental Challenges*, 5 (100256). https://doi.org/10.1016/j.envc.2021.100256

15. *** ** Salekin, S.**, Catalán, C.H., Boczniewicz, D., Phiri, D., Morgenroth, J., Meason, D.F., Mason, E.G. (2021). Global tree taper modelling: A review of applications, methods, functions, and their parameters. *Forests*, 12, 913. https://doi.org/10.3390/f12070913
16. Phiri, D., **Salekin, S.**, Nyirenda, V. R., Simwanda, M., Ranagalage, M., Murayama, Y. (2021). Spread of Covid-19 in Zambia: An assessment of environmental and socioeconomic factors using a classification tree approach. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00827
17. Rahman, M. S., Alam, M. A., **Salekin, S.**, Belal, M. A. H., Rahman, M. S. (2021). The Covid-19 pandemic: A threat to forest and wildlife conservation in Bangladesh? *Trees, Forests and People*, 5(100119). https://doi.org/10.1016/j.tfp.2021.100119
18. **†**West, T. A. P., **Salekin, S.**, Melia, N. Wakelin, S. J., Yao, R. T., Meason, D. F. (2021). Diversification of forestry portfolios for climate change and market risk mitigation. *Journal of Environmental Management*, 289 (112482.
19. ***Salekin, S.,** Mason, E.G., Morgenroth, J., Meason, Bloomberg, M., Meason, D.F. (2021). Hybrid height growth and survival model for juvenile *Eucalyptus globoidea* (Blakely) and *E. bosistoana* (F. Muell) in New Zealand. *Forest Ecology and Management*, 490 (119074).
20. ***Salekin, S.,** Bloomberg, M., Morgenroth, J., Mason, E.G., Meason, D. F. (2021). Within-site drivers for soil nutrient variability in plantation forests: A case study from dry sub-humid New Zealand. *Catena*, 200 (105149).
21. Phiri, D., Simwanda, M., **Salekin, S.**, Nyirenda, V.R., Murayama, Y., Ranagalage, M. (2020). Sentinel-2 data for land cover/use mapping: A review. *Remote sensing*, 12 (14), 2291.
22. ***Salekin, S.,** Morgenroth, J., Mason, E., & Meason, D. (2020). A preliminary growth and yield model for *Eucalyptus globoidea* in New Zealand. *New Zealand Journal of Forest Science*, 50.
23. ***Salekin, S.**, Mason, E. G., Morgenroth, J., Bloomberg, M., & Meason, D. F. (2019). Modelling the effect of microsite influences on the growth and survival of juvenile *Eucalyptus globoidea* (Blakely) and *Eucalyptus bosistoana* (F. Muell) in New Zealand. *Forests*, 10(10), 857.
24. ***Salekin, S.**, Burgess, J., Morgenroth, J., Mason, E., & Meason, D. (2018). A comparative study of three non-geostatistical methods for optimising digital elevation model interpolation. *isprs International Journal of Geo-Information*, *7*(8), 300.
25. Siddique MRH, Saha S, **Salekin S**, Mahmood H (2017). Salinity strongly drives the survival, growth, leaf demography, and nutrient partitioning in seedlings of *Xylocarpus granatum* J. König. *iForest* 10: 851-856. doi: 10.3832/ifor2382-010
26. Resco de Dios V, Gessler A, Ferrio JP, …., **Salekin S**, Tissue DT, Tjoelker MG, Voltas J, Roy J. 2017. Circadian rhythms regulate the environmental responses of net CO2 exchange in bean and cotton canopies. *Agricultural and Forest Meteorology*, 239, 185-191.
27. Mason, E. G., **Salekin, S.**, & Morgenroth, J. A. 2017. Comparison between meteorological data from the New Zealand National Institute of Water and Atmospheric Research (NIWA) and data from independent meteorological stations. *New Zealand Journal of Forestry Science*, 47(1), 7. doi:10.1186/s40490-017-0088-0
28. Gessler A, Roy J, Kayler Z, Ferrio JP, …., **Salekin S**, Tissue DT, Tjoelker MG, Voltas J, Hoch G, Resco de Dios V. 2017. Night and day – Circadian regulation of night-time dark respiration and light-enhanced dark respiration in plant leaves and canopies. *Environmental and Experimental Botany*. doi: 10.1016/j.envexpbot.2017.01.014.

29. Resco de Dios V, Gessler A, Ferrio JP, …., **Salekin S**, Tissue DT, Tjoelker MG, Voltas J, Roy J. 2016. Circadian rhythms have significant effects on leaf-to-canopy scale gas exchange under field conditions. *GigaScience*, 5(1), 43. doi:10.1186/s13742-016-0149-y
30. Martín-Alcón, S., Coll, L., & **Salekin, S.** (2015). Stand-level drivers of tree-species diversification in Mediterranean pine forests after abandonment of traditional practices. *Forest Ecology and Management*, 353(0), 107-117. doi: http://dx.doi.org/10.1016/j.foreco.2015.05.022
31. Hossain, M., Saha, S., **Salekin**, **S.,** Mamun, A. A., Siddique, M. R. H., Abdullah, S. M. R. (2014). Salinity influence on germination of four important mangrove species of the Sundarbans, Bangladesh. *Agriculture and Forestry*, Vol. 60. Issue 2: 125-135, 2014, Podgorica.

Technical Report and Popular press

1. **Salekin, S.**, White, D., Dovey, S., Dickinson, Y, and Dunningham, A. (2024). Evaluating the potential for a default carbon table for Coastal Redwoods and an updated default table for the exotic softwoods forest type for use in the ETS: Evaluation alternative carbon modelling. Technical report prepared for Ministry of Primary Industries (MPI), New Zealand.
2. Mason, N., Jo, I., **Salekin, S.**, and Dickinson, Y. (2024). Modelling options for indigenous forest yield tables. Technical report prepared for Ministry of Primary Industries (MPI), New Zealand.
3. **Salekin, S.** and Payn, T. (2023). Towards more resilient and diverse planted forests. Unasylva, 254, 20-24. doi: https://doi.org/10.4060/cc8584en
4. Dovey, S., McKinley, R., Thumm, A. Lee, J. R., Stovold, T., **Salekin, S**. (2023). NIR durability analysis of coast Redwood increment cores.
5. Jones, A., Palmer, D., **Salekin, S.**, Meason, D., Hall, P. W. (2022). Shot rotation bioenergy forestry. Confidential technical report prepared for Ministry of Primary Industries (MPI), New Zealand.
6. **Salekin, S.**, Pont, D., Dickinson, Y. (2022). Validation of proof-of-concept model. Confidential technical report prepared for Resilient Forest project.
7. **Salekin, S.**, Pont, D., Dickinson, Y. (2022). Prototype individual tree growth sub model for even-aged *Pinus radiata* (D. Don). Report prepared for Resilient Forest project.
8. Dickinson, Y. L., **Salekin, S.**, Meason, D. F. (2022). An updated exotic hardwoods default carbon look-up table. Technical report prepared for Ministry of Primary Industries (MPI), New Zealand.
9. **Salekin, S.**, Dickinson, Y. L., Jones, T., Meason, D. F. (2022). Evaluation of space-panted poplar's carbon sequestration, and potential adjustments to the emission trading scheme look-up tables. Technical report prepared for Ministry of Primary Industries (MPI), New Zealand.
10. **Salekin, S.**, Dickinson, Y. L., Meason, D. F. (2022). Estimated minimum poplar stocking required to qualify as forest land. Confidential technical report prepared for Ministry of Primary Industries (MPI), New Zealand.
11. Jones, A. G., Palmer, D., **Salekin, S.**, Meason, D. F., Hall, P. (2021). Strategic review of short-rotation bioenergy forests. Technical report prepared for Scion's strategic science review committee.
12. **Salekin, S.** and Meason, D. F. (2021). Understanding physiological plasticity and modelling approaches at different spatial scales of three exotic tree species in New Zealand: A brief review with field scale data analyses. Technical report prepared for Ministry of Primary Industries (MPI), New Zealand.
13. Meason, D. F., Lin, Y., **Salekin, S.**, Höck, B., and Dowling, L. (2020). Carbon accounting for less commonly grown tree species. New Zealand Tree Grower (November 2020; p15-18).

14. **Salekin S.**, Burgess J. H., Mason E.G., Morgenroth J. (2020). Preliminary juvenile height yield models for three durable Eucalyptus species by integrating site-specific factors. Technical report prepared for Forest Growers Levy Trust (FGLT) and Speciality Wood Products (SWP) research partnership.
15. **Salekin S.**, Bloomberg M., Mason E.G., Morgenroth J. 2019. Soil tests results from three DFI experimental sites, Marlborough. Technical report prepared for New Zealand Dryland Forests Initiative, Marlborough Research Centre, New Zealand.
16. **Salekin, S.**, Morgenroth, J., & Mason, E. (2017). Site characterisation and growth modelling for durable eucalypts. Durable eucalypts on drylands: protecting and enhancing value, 63, 12.

Thesis

1. **Salekin, S.** (2019). Hybrid growth models for *Eucalyptus globoidea* and *E. bosistoana*: Explaining within and between site variability. PhD thesis. New Zealand School of Forestry, University of Canterbury, Christchurch, New Zealand.
2. **Salekin, S.** (2014). Natural diversification of black pine forests in the pre-Pyrenean mountains (NE Spain): the role of stand structure and canopy attributes. MSc Thesis. Catalan Forest Science Centre and University of Lleida. Lleida, Spain.
3. **Salekin, S.** (2011). Effect of salinity on *Xylocarpus granatum* J. König seedling survival and growth. MSc Thesis. Khulna University, Khulna, Bangladesh.
4. **Salekin, S.** (2010). Effect of salinity on germination of *Xylocarpus granatum* J. König seeds. BSc Thesis. Khulna University, Khulna, Bangladesh.

Presentations

1. **Salekin, S.**, Dickinson, Y. L., Bloomberg, M., and Meason, D. F. 2023. Carbon sequestration potential of plantation forest in New Zealand: A comparative study. 5th International Congress on Planted Forests 2023. (November 7-10). Nairobi, Kenya.
2. **Salekin, S.**, Bloomberg, M., Benye, X., Liu, L., Liu, Y., Li, D., and Mason, E. G. 2023. Potentially usable light sum equations for Populus plantations: A case study from China. Hybrid forest modelling workshop. October 18th, 2023. University of Canterbury, Christchurch, New Zealand.
3. Cassales, G. W., **Salekin, S.** 2023. Forecasting plantation forests growth: Current state and future directions. TAIAO Workshop. August 24th, 2023. The University of Waikato, Tauranga Campus, 101 Durham Street, Tauranga 3110.
4. Meason, D., **Salekin, S.**, Lad, P., Owens, J., …… Dudley, B. 2023. Forest Flows: Integration of terrestrial, remote sensing and airborne P-band SAR data for identifying & quantifying the drivers of forest hydrological processes across different scales. PolinSAR and Biomass 2023, Toulouse, France, 19-23 June 2023.
5. Meason, D., **Salekin, S.**, Lad, P., Owens, J., ……Matson, A. 2022. Forest Flows – Data Fusion of Remote Sensing and Real Time Terrestrial Data for Identifying and Quantifying the Drivers of Forest Hydrological Processes across Different Scales. AGU Fall Meeting, Chicago, IL. 12-16 December 2022.
6. **Salekin, S.**, Mason, E. G., (2021). Site variability in plantation forest: A dryland eucalypt experience through hybrid growth and yield modelling approach. Symposium on "Hybrid growth and yield modelling with modified radiation sums" held in New Zealand School of Forestry, University of Canterbury, Christchurch. 18th November 2021.

7. Meason, D. F., **Salekin, S.**, Lin, Y., and Höck, B. (2021). Growing and managing *Eucalyptus* on dryland sites. Presented to Ministry of Primary Industries (MPI).
8. **Salekin, S.,** Mason, E., Morgenroth, J., Bloomberg, M., Meason, D. 2019. Within and between site variability of juvenile *Eucalyptus globoidea* and *E. bosistoana* grown in New Zealand. Fast Forward, New Zealand Farm Forestry Association's Conference in Rotorua, New Zealand from March 5 - 6, 2019.
9. **Salekin, S.,** Mason, E., Morgenroth, J., Bloomberg, M., Meason, D. 2017. Modeling juvenile height yield of *Eucalyptus globoidea* and *Eucalyptus bosistoana* in response to micro-site effects. IUFRO Forest Regeneration in Changing Environments in Corvallis, Oregon from July 11th-13th, 2017.
10. **Salekin, S**., 2016. Assessment of micro-scale site variation. Precision Forestry Workshop-2016. Christchurch, New Zealand.
11. **Salekin, S**., Hossain, M. 2013. Effect of Salinity on Germination of *Xylocarpus Granatum* (Koeing) Seeds. VII Young Researchers Meeting on Conservation and Sustainable use of Forest Systems 2013. Valsain, Segovia, Spain. 30th January and 1st February 2013.

Poster presentation

1. **Salekin, S.** 2015. Hybrid model for juvenile durable eucalyptus (*Eucalyptus Bosistoana* & *Eucalyptus globoidea*) by integrating micro & macro-site variables. Forest Growers Research Conference-2015. Nelson, New Zealand.

In the news

1. *Research Data from Scion New Zealand Forest Research Institute Ltd. Update Understanding of Remote Sensing*. News Paper Article. Tech Daily News, United States. July 2024.
2. *Carbon capture: no single tree species is best*. News Paper Article. Impact News Service, India. May 2024.
3. *Exotic or Native: NZ Scientists Find All Trees Better at Carbon! Wood Central*. News Paper Article. April 2024.
4. *A good day to be a tree.* News Paper Article. Impact News Service, India. March 2023.
5. *Forest diversity lowers planting risk.* Farmers Weekly. New Zealand, April 14, 2021.

Research Grants

2024-2025	Assessing the status of mixed-species plantation in New Zealand using permanent sample plots data. Role & Fund: Project Leader. NZD 140,000. Collaborators: Dr Mostarin Ara, Dr Donald White. Funder: Strategic Science Investment Fund (SSIF), Ministry of Business, Innovation & Employment. *Task: Planning, executing, analysis and reporting.*
2024-2025	Resilient Forest: Research Area 2.3- Assessing current growth and yield model efficiency for radiata pine in New Zealand Role & Fund: Task Lead. NZD 60,000. Collaborators: Dr Peter Clinton (Project Leader), Dr Yvette Dickinson and Dr David Pont.

	Funder: Jointly funded by Forest Growers Research and Strategic Science Investment Fund (SSIF), Ministry of Business, Innovation & Employment. *Task: Task Leader. Making work-plan, data duration, analysis, and reporting.*
2024	Maximising Forest Carbon Programme: Modelling options for transition forest ETS yield tables. Role & Fund: Key Researcher. NZD 149,890. Collaborators: Dr Yvette Dickinson (Project Leader), Dr Insu Jo, Dr Norman Mason Funder: Te Uru Rākau – New Zealand Forest Service, Ministry of Primary Industries, New Zealand. *Task: Research design, analyses and reproting.*
2024	Transition forest carbon stock modelling. Role & Fund: Key Researcher. NZD 99,999 Collaborators: Dr Norman Mason (Project Leader), Dr Yvette Dickinson, Dr Insu Jo Funder: Parliamentary Commissioner for the Environment. *Task: Data analyses and reporting.*
2023-2024	Indigenous forest carbon yield tales. Role & Fund: Key Researcher. Collaborators: Dr Norman Mason (Project Leader), Dr Yvette Dickinson, Dr Insu Jo Funder: Te Uru Rākau – New Zealand Forest Service, Ministry of Primary Industries, New Zealand. *Task: Provide baseline data organisation and curation and expertise on carbon modelling.*
2022-2023	Growth and yield models for alternative plantation species. Role & Fund: Project Leader. NZD 180,000. Collaborators: Dr Yvette Dickinson. Funder: Strategic Science Investment Fund (SSIF), Ministry of Business, Innovation & Employment. *Task: Overall project administration including work- and financial-plan, research execution and report writing.*
2019-2024	Forest Flows – creating water-resilient landscapes. Role & Fund: Researcher and Task Leader. NZD 13.7 million. Collaborators: Dr Dean F. Meason (Programme Leader); NIWA (New Zealand), University of Waikato (New Zealand), Virginia Polytechnic Institute and State University, USA; University of Massachusetts Amherst, USA. Funder: Ministry of Business, Innovation & Employment's Endeavour Fund. *Task: Providing technical expertise through research design, data processing, analyses and report writing.*
2020-2021	Exotic hardwoods default carbon tables- Emissions Trading Scheme. Role & Fund: Researcher. NZD 280,000. Collaborators: Dr Yvette Dickinson (Project Leader), Dr Dean F. Meason, Steve J. Wakelin. Funder: Te Uru Rākau – New Zealand Forest Service, Ministry of Primary Industries, New Zealand. *Task: Data analyses and report writing.*

Scholarship and awards

- 2023, New Zealand Institute of Forestry Foundation's Chavasse Travel Award (NZD 3500).
- 2019, University of Canterbury open access publishing grants (NZD 1500).
- 2019, College of Engineering (CoE) publishing scholarship from College of Engineering, University of Canterbury (NZD 3600).
- 2018, University of Canterbury open access publishing grants (NZD 2500).
- 2018-2019, TW ADAMS postgraduate scholarship in forestry, University of Canterbury, New Zealand towards completion of PhD in Forestry (NZD 10000).
- 2017, McKelvey Award to attend IUFRO conference at Oregon State University, Corvallis, Oregon (NZD 2500).
- 2015-2019, DFI Postgraduate Scholarship from the New Zealand school of Forestry, University of Canterbury, New Zealand from February, to pursue PhD in Forestry.
- 2012-2014, ERASMUS MUNDUS (category-A) scholarship for M.Sc. in Mediterranean Forestry and Natural Resources Management (MEDfOR). (Euro 50,000)
- 2007-2010, Merit scholarship from Khulna University, Bangladesh for consistently holding position in merit list for four years of BSc in Forestry (Hons') programme.

Teaching experience, supervision, and training

- PhD committee member of Moari West at University of Waikato, Hamilton, New Zealand. PA: Assoc. Prof. Mike Clearwater.
- Teaching Assistant (TA), 2016-2019, Conducting workshop for the course Fundamental of Engineering (ENGR101), College of Engineering, University of Canterbury, New Zealand.
- Academic Tutor, 2018-2019, Provide tutoring on species distribution and growth dynamics modelling to postgraduate students at School of Biological Science and School of Forestry in University of Canterbury.
- Successfully completed the training on teaching provided by Academic Skills Centre, University of Canterbury, New Zealand.

Research Services

Editor: New Zealand Journal of Forestry Science (2020-Present). Land (2020-2021).
Referee: Agriculture and Forest Meteorology (3); Catena (2); Canadian Journal of Forest Research (1); American Journal of Botany (2); Journal of Forestry Research (1); New Zealand Journal of Forest Science (3); Scandinavian Journal of Forest Research (5); Silva Fennica (2); Southern Forests: A journal of forest science (2); ISPRS International Journal of Geo-Information system (8); Remote Sensing (14); Symmetry (3).
Postgraduate thesis examination: School of Biological Science, The University of Auckland, New Zealand.
Review College member: British Ecological Society (BES), UK, (Current).

Membership

- December 2023 – present, Early Career Development Programme Committee (ECDP) member, New Zealand Institute of Forestry (NZIF), New Zealand.
- November 2023 – present, Review College member, British Ecological Society (BES), UK.

- October 2023 – present, Registered Forest Advisor, jointly by NZIF and New Zealand ministry of primary industries (MPI)'s forestry service, New Zealand.
- March 2023 – Acting co-ECR leader for Scion to Present in Science New Zealand.
- January 2022- March 2024, Professional ECR member of Royal Society of New Zealand Te Apārangi (MRSNZ) and representative of Plant Development and Physiology (PDP) research group from Scion.
- 2016- 2022, Graduate member of New Zealand institute of Forester (NZIF).
- January 2022-2023, Scion science seminar committee member (Internal).

Instrumental orientation, field expertise and license

- Laboratory experience with UV-spectrophotometer, Flame photometer, Portable photosynthesis system (Li-6400) and Leaf area index measurement system (Li-2200c).
- Hold a full New Zealand driving license and capable of driving in all terrain conditions.
- Trained health and safety personnel including fire hazard and outdoor first aid.

References

1. Professor Euan G. Mason
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New Zealand.
Email: euan.mason@canterbury.ac.nz
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2. Dr Yvette Dickinson
Senior silvicultural scientist (Ex-Research group leader)
Portfolio Leader for Designing Forests - Mahi Tahi Whaihua
Plant Development and Physiology
New Zealand Forest Research Institute (Scion Ltd.)
Titokorangi Drive (formerly Long Mile Road),
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3. Dr Dean F. Meason
Senior Scientist (Ex-Research group leader)
Programme Leader-Forest Flows
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