

## Education

1. **Ph.D. Forest Resources**, January 2019-present (GPA: 3.95), University of Maine, Orono, USA - 04473
2. **Master of Science in Forestry**, July 2017 (OGPA: 8.77), Kerala Agricultural University, Thrissur, India – 680656.  
**Major Advisor:** Anoop, E.V., Ph.D.  
**George, A.K.** 2017. Wood property profiling of coconut palms grown in different agro-climatic zones of Thrissur district, Kerala. MSc (Forestry) thesis, Kerala Agricultural University, Thrissur, 152p.
3. **Bachelor of Science in Forestry**, May 2014 (OGPA: 9.03), Tamil Nadu Agricultural University, Coimbatore, India – 641003.  
**Major Advisor:** Parthiban, K.T., Ph.D.  
**George, A.K.** 2014. Development and documentation of descriptors for Jatropha and their hybrid derivatives. BSc (Forestry) dissertation, Tamil Nadu Agricultural University, Coimbatore, 115p.

## Work Experiences

1. **Teaching Assistant**, SFR 213-001, School of Forest Resources, University of Maine, Orono, ME, USA. January 2020.
  - Supervised students on field trips by performing head counts and maintaining group proximity to account for all children in busy, public environments.
2. **Graduate Research Assistant**, School of Forest Resources, University of Maine, Orono, ME, USA. January 2019 onwards.
  - Executed qualitative and quantitative analysis on wide range of data.
  - Gave public presentations of findings at conferences.
  - Designed research and experimental studies, executing research techniques, tests and assays.
  - Assisted with research for academic publications.
  - Helped the faculty in conducting exams and grading.
3. **Program Officer**, GICIA India Pvt. Ltd, Noida, Uttar Pradesh, India. August 2018 to October 2018.
  - Performed audits of wood products to assess control structures and enhance conformance with regulatory requirements.
  - Partnered with program management to make recommendations, process improvements and corrective action plans.
4. **Lecturer**, Department of Forest Products and Utilization, College of Forestry, Kerala Agricultural University, Thrissur, India. July 2017 to August 2018.
  - Attended and spoke at conferences and seminars, sharing information and insights gleaned from such events.

- Organized activities and class events to drive learning objectives and promote engagement.
  - Supported department faculty by teaching courses.
  - Served as primary lecturer for Department of Forest Products and Utilization
  - Lectured to classes of up to 30 students regarding Forest Products and Utilization.
  - Organized field tours.
5. **Internship**, Keystone Foundation, Kotagiri, Tamil Nadu, India. July 2013.
- Completed assigned duties and consistently produced high volume of work to support daily business needs.

### Peer Reviewed Articles

1. Sundaram, S.R., **George, A.K.**, Chavan, S.B., Kumar, S., Jayasubha, S. 2020. Progress and future research trends on *Santalum album*: A bibliometric and science mapping approach. *Industrial Crops and Products* 158 (2020) 112972.
2. Sundaram, S.R., Kunhamu, T.K., Anoop, E.V., **George, A.K.** 2019. Does stand thinning influence wood physical properties? An investigation in a tropical hardwood, *Acacia mangium* Wild. *Journal of Tropical Agriculture* 56(2): 137-144.
3. **George, A.K.**, Parthiban, K.T., Kumar, V. 2016. Development and documentation of descriptors for *Jatropha* and their hybrid derivatives. *Indian Journal of Tropical Biodiversity* 24(1): 8-26.

### Articles under review

1. Kizha, A.R., Nahor, E.R., Coogen, N., **George, A.K.**, Louis, L.T. Residual Stand Damage across Varying Silvicultural Prescriptions. *Forestry Chronicle*.
2. **George, A.K.**, Kizha, A.R., Kenefic, L. 2019. Economic feasibility of timber harvesting in waterlogged cedar stands. *Journal of Forestry*.

### Conference Proceedings

1. **George, A.K.**, Kizha, A.R., Kenefic, L. 2019. Economic Feasibility of timber harvesting in lowlands. In eds: I. Czupy (2019): *Exceeding the Vision: Forest Mechanization of the Future*. Proceedings of the 52<sup>nd</sup> International Symposium on Forestry Mechanization. Sopron, Hungary 2019. e-book 651p.

### Abstracts and Other Publications

1. **George, A.K.**, Kizha, A.R. 2021. Perspective of Foresters toward Forest Certification Programs. New England Society of American Foresters Annual Winter Conference. Virtual. March 22-24.
2. Kizha, A.R., Alex, A., **George, A.K.**, Louis, L.T. 2020. Cost of Harvesting Small-diameter Trees: Comparing Semi-Mechanized and Mechanized Harvesting Operation. Society of American Foresters National Conference. Virtual. Oct 29-Nov 1.
3. **George, A.K.**, Kizha, A.R. 2020. Soil Erosion Potential of Major Timber Harvesting Methods in Northeastern US: A Comparative Study. Society of American Foresters National Conference. Virtual. Oct 29-Nov 1.

4. **George, A.K.**, Kizha, A.R. 2019. Quantifying soil disturbance in a whole-tree operation method. In eds: I. Czupy (2019): Exceeding the Vision: Forest Mechanization of the Future. Proceedings of the 52<sup>nd</sup> International Symposium on Forestry Mechanization. Sopron, Hungary 2019. e-book 651p.
5. Nahor, E., Kizha, A.R., Louis, L.T., **George, A.K.** 2019. Residual stand damage under different silvicultural prescriptions. In eds: I. Czupy (2019): Exceeding the Vision: Forest Mechanization of the Future. Proceedings of the 52<sup>nd</sup> International Symposium on Forestry Mechanization. Sopron, Hungary 2019. e-book 651p.
6. Anoop, E.V., Antony, T., Haridas, S.M., **George, A.K.**, Das, J.K., Choudhary, D., Baburaj, A. 2018. Practical Manual cum record on Wood Anatomy Vol. I. Kerala Agricultural University, Thrissur, 36p.
7. Anoop, E.V., **George, A.K.** 2018. Coconut palm – An alternative wood resource. In: *Abstracts, National Seminar on “Wood A Way Forward for Sustainable Development”*; 9 February 2018, Bengaluru. Institute of Wood Science and Technology, p51.
8. Anoop, E.V., **George, A.K.**, Jeeshma, V.J. 2016. ‘Thegu thadi samskaranavum vipananavum-sadhyathakalum velluvilikalaum’(Malayalam). *Indian Naliker Journal* 7(10): 24-25. (Malayalam)

### **Talks/ Trainings/ Field Demonstrations**

1. Kizha, A.R., Louis, L.T., **George, A.K.**, Alex, A. Thinking to Fly. Shamrock 4.0, Placement Cell, College of Forestry, Kerala Agricultural University, May 2020. Webinar.
2. **George, A.K.**, Kizha, A.R., Kenefic, L., Louis, L.T. Harvest operations on sensitive grounds. Cooperative Forestry Research Unit Workshop for Prentiss and Carlisle, July 2019. Cooperative Forestry Research Unit. Bangor, ME.
3. Kizha, A.R., **George, A.K.**, Louis, L.T. Comparison of timber harvesting costs across wet and sturdy grounds. High Resolution Wet Areas Mapping Workshop, June 2019. Cooperative Forestry Research Unit. Orono, ME.
4. **George, A.K.**, Kizha, A.R., Kenefic, L., Louis, L.T. Northern white cedar: Harvesting cost and productivity. Cedar Club Meeting, April 2019. Quebec City, Quebec, Canada.
5. **George, A.K.** Coconut palm. Processing Value addition and Product Manufacturing from Coconut Wood, October 2017. Kerala Agricultural University and Coconut Development Board, Kerala, India.

### **Courses Handled**

#### **1. Wosc3107: Logging and Ergonomics (2+1)**

Definition and scope of logging, logging plan and execution. Location and demarcation of the area for logging and estimation of produce available for extraction. Implements used in logging operation, traditional and improved tools. Felling rules and methods. Conversion, measurement and description of converted material. Means of transport of timber; carts, dragging, skidding, overhead transport, ropeways, skylines. Transport by road and railways. Transport by water; floating, rafting and concept of booms. Grading and storage of timber in the depots for display and disposal, temporary and final

storage. Timber Depots: types, lay out and management. Systems of disposal of timber. Size of material in logging operation. Ergonomics: definition, components and provision of energy. Requirement of energy and rest periods. Effect of heavy work, posture, weather and nutrition. Personal protective equipment, safety helmets, ear and eye protections. Accidents: causes, statistics, safety rules and first aids. Plants, animals and insect infestations; diseases and their prevention.

## 2. Fowe 4104: Industrial Placement (o+3)

Attachment with Forest Based Industries like Wood Workshop and Sawmills, Wood Seasoning and Preservation Treatment Plants, Pulp and Paper Industries, Aromatic and Medicinal Plant Units including AMPRS, Odakkali, Oushadhi, Kottakkal, KAPL, Aluwa, Ayurdhara, etc. Carpentry, bamboo and reed crafts, other Wood Products Industries, rubber, NWFP etc. Works to be undertaken includes study the nature of industrial and business organization – structure, raw-material – collection and processing of raw-material, hands on practical, production and management process, marketing and financial management

## Articles Reviewed

1. **Current World Environment.** Performance of tree species on waterlogged sites of canal command area: A case study of Bargi Dam, Jabalpur (M.P.) (CWE/1618/2020). February 2021.
2. **Maine Department of Agriculture, Conservation and Forestry.** Maine Forestry Best Management Practices (BMP) Use and Effectiveness-Data Summary 2018-2019. April 2020.
3. **Biomass and Bioenergy.** Evaluation of *Laminaria digitate* and *Phragmites australis* for biogas production and nutrient recycling (JBBD-D-19-01020). December 2019.
4. **Forest Science and Technology.** Utilization woody pruning residues of apple trees as a wood substitute for particleboard industries (TFST-2019-0053). November 2019.
5. **Current World Environment.** An overview of atmospheric reactive nitrogen research: South Asian Perspective. March 2019.

## Achievements and Awards

1. **2021 Spring Graduate Student Government Grant (GSG),** GSG, University of Maine, Orono, March 2021.
2. **SAF Student Diversity Scholar,** Society of American Foresters. September 2020.
3. **Charles E. Schomaker Memorial Scholarship,** School of Forest Resources, University of Maine, Orono. April 2020.
4. **Graduate Teaching Academy Graduate,** Center for Innovation in Teaching and Learning, University of Maine, Orono. Jan – June 2020.
5. **Travel Grant.** String Bio 2019, Florida International University, Miami and University of Central Florida, Orlando. November 2019.
6. **Student Scholar.** Sustainable Forestry Initiative Annual Conference 2019, Sustainable Forestry Initiative. October 2019.

7. **Graduate Research Assistantship.** School of Forest Resources, University of Maine. January 2019 onwards.
8. **National Eligibility Test.** Indian Council of Agricultural Research. September 2017.
9. **PG Fellowship.** Kerala Agricultural University. August 2014 to August 2016.
10. **Best Undergraduate Student in Forestry.** Tmt. Leela Kondas Award, Tamil Nadu Agricultural University. August 2015.
11. **Best Undergraduate Student in all Tree Breeding Courses.** V. Venkatram Chettiar, Kothagiri Memorial Award, Tamil Nadu Agricultural University. August 2015.
12. **National Talent Scholarship.** Indian Council of Agricultural Research, July 2010 to May 2014.
13. **Rasthrapati Scout.** The President of India Award, Government of India. July 2006.
14. **Rajyapuraskar Scout.** The Governor of Kerala Award, Raj Bhavan, August 2005.

#### **Projects working/ worked**

1. PI- Wang, J. 2018. Advancing Forest Logging Residue Harvesting and Collection Logistics in the Eastern U.S. USDA NIFA Foundational and applied Science program.
2. PI- Kizha, A.R. 2018. Timber Harvesting in Maine: Assessing Cost, Productivity, and Residual Stand Conditions. McIntire Stennis project # ME041909.
3. PI- Kenefic, L. 2017. Silvicultural Treatments and Operational Considerations for Lowland Northern White-Cedar. Cooperative Forestry Research Unit.
4. PI- Anoop, E.V. 2016. Training and Technology Demonstration Project for Making Value Added Products from Coconut Wood. Coconut Development Board, GOI.
5. PI- Anoop, E.V. 2016. Establishment of a GIS-RS Unit at the College of Forestry, KAU-To Serve as Central Facility for the University for Spatial Databases and Cartography. Kerala Agricultural University.

#### **Professional Skills**

1. Website management - WordPress
2. Questionnaire survey - Qualtrics
3. R-studio
4. Forest Vegetation Simulator (FVS)
5. Time-motion study
6. Forest stand inventory
7. Forest certification auditing
8. Wood microtomy and wood identification
9. Non-destructive wood testing
10. Tree ring station (sample preparation and ring measurement)

#### **Membership in professional organizations**

1. International Society of Tropical Foresters – 2020 onwards
2. Society of American Foresters – 2020 onwards
3. New England Region Council of Forest Engineering – 2019 onwards
4. Council of Forest Engineering – 2019 onwards

5. Maine Natural History Observatory – 2020 to 2021
6. All India Agricultural Students Association – 2013 to 2015
7. Tamil Nadu Forestry Students Association – 2010 to 2014

### **Trainings/ Workshops Participated**

1. Data Management Resources, Fogler Library, University of Maine, Orono, Virtual. April 2021.
2. The Science of Carbon Forestry, Forest Stewards Guild, Virtual. April 2021.
3. Regional Consultation on Forest Education for North American, FAO-ITTO-IUFRO, Virtual. February 2021.
4. Cedar Club Meeting. Maibec, U.S. Forest Service, and University of Laval, Virtual. November 2020.
5. New England Region Council of Forest Engineers (NERCOFE), Fall Webinar Series. November 2020.
6. Urban Trees and Chewed Up Leaves: Managing Insect and Fungal Pests in the Urban and Managed Landscapes. Society of American Foresters (SAF). July 2020.
7. SFI Conservation Impact Sounding Board E-Workshop: Carbon and Climate Change and the Value of Sustainable Forest Management. Sustainable Forestry Initiative (SFI). May 2020.
8. New England Region Council of Forest Engineers (NERCOFE), Webinar Series. April 2020.
9. Social & Behavioral Research, Collaborative Institutional Training Initiative (CITI Program). February 2020.
10. Forest Climate Change Science and Practice Forum. Forest Stewards Guild and Forest Climate Change Initiative, University of Maine, Orono. February 2020.
11. Speed Reading and Memory Techniques. Iris Reading. November 2019.
12. Forests of Opportunity. Annual Conference, Sustainable Forestry Initiative (SFI), Virginia, USA. October 2019.
13. Road Building Toolbox. Master Logger Certification Program, Maine. October 2019.
14. Exceeding the Vision: Forest Mechanization of the Future. 52. International Symposium on Forest Mechanization (FORMEC) and 42. Edition of the Council of Forest Engineering (COFE), Sopron, Hungary. October 2019.
15. 'R' Workshop. University of Maine, Orono. September 2019.
16. Get It Done, Writing Workshop. University of Maine, Orono. August 2019.
17. High Resolution Wet Areas Mapping Workshop. Cooperative Forestry Research Unit, Orono. June 2019
18. Cedar Club Meeting. Maibec and University of Laval, Quebec, Canada. April 2019.
19. Mixed Wood Management. Webinar Series, Cooperative Forestry Research Unit, Orono. April 2019.
20. Finding Maine's Wetlands: Remote Sensing and LiDAR. Webinar Series, Cooperative Forestry Research Unit, Orono. April 2019.
21. Citation Managers. University of Maine, Orono. January 2019.
22. Workshop Series on Grant Writing. University of Maine, Orono. January 2019.
23. Farming Operational Guidelines for Implementing National Agroforestry Policy for Kerala. Kerala Agricultural University, Thrissur. May 2018.

24. Wetland Conservation and Kole Fish Count. Kerala Agricultural University and Kerala University of Fisheries and Ocean Studies, Thrissur. February 2018.
25. GI-Registration for Nilambur teak. Kerala Agricultural University, Thrissur. January 2018.
26. Human- Animal Conflicts in Kerala: from status to solutions. Kerala Veterinary and Animal Sciences University, Thrissur. June 2017.
27. Remote Sensing and GIS Applications in Carbon Forestry (Certificate Course). Indian Institute of Remote Sensing. May 2017.
28. Geospatial Technologies for Urban Planning (Certificate Course). Indian Institute of Remote Sensing. March 2016.
29. Introduction to Statistical Packages for Social Sciences (SPSS). Kerala Agricultural University, Thrissur. September 2015.
30. Open Source Software in Geographic Information Analysis. Kerala Agricultural University, Thrissur. December 2014.
31. e-Resources in Agriculture and Allied Subjects. Kerala Agricultural University, Thrissur. August 2014.
32. Family Farming: Agro-forestry Options for Food, Nutritional and Ecological Security in Humid Tropics. Kerala Agricultural University, Thrissur. December 2014.
33. Industrial Attachment. Tamil Nadu Forest Plantation Corporation Limited. March 2013.
34. Forest Work Experience. Tamil Nadu Forest Department. February 2013.
35. Jungle Survival Training. Special Task Force, Tamil Nadu Police. January 2013.
36. Tiger Census. Coimbatore Forest Division, Tamil Nadu Forest Department. July 2012.
37. Animal Welfare and Conservation. WWF (India), SACON, FIAPO, WRCT, SCW, YI. January 2012.

### **Extra-Curricular Activities**

1. Convener – Business Technical Session, Student Symposium, University of Maine, Orono. April 2021.
2. Volunteer (Blood Donor Ambassador), The American Red Cross. December 2020 onwards.
3. Vice-president, The SFR Graduate Student Diversity, Equity and Inclusion Committee, School of Forest Resources (SFR), Orono – secured funding from SFR and the UMaine Graduate Student Government. November 2020 onwards.
4. Student Symposium (**Judge**), University of Maine, Orono. October 2020.
5. Volunteer, Student Symposium, University of Maine, Orono. October 2020.
6. SFR 521: Student Alumni Panel. School of Forest Resources, University of Maine, Orono, September 2020.
7. The Journal Club, Raymond H. Fogler Library, University of Maine, Orono. June to August 2020
8. The SFR Graduate Student Diversity, Equity and Inclusion Committee, School of Forest Resources, Orono. May 2020 onwards
9. Volunteer, International Dance Festival, Office of International Programs, University of Maine, Orono. February 2020.
10. Coordinator, Culture Fest. University of Maine, Orono. November 2019.

11. Volunteer, Oronoka. International Student Association, University of Maine, Orono. October 2019.
12. Volunteer, Undergraduate Orientation. University of Maine, Orono. August 2019.
13. Student Symposium (**Judge**). University of Maine, Orono. April 2019.
14. Winner, Volleyball (Division B). Intramural, University of Maine, Orono. March 2019.
15. Member, International Students Association. University of Maine, Orono. January 2019 onwards.
16. Remote sensing and GIS tools for natural resource management (**Organizer**). College of Forestry, Kerala Agricultural University, Thrissur. March 2016.
17. Second Runners up, Mime. Inter-Collegiate Arts, Kerala Agricultural University. September 2015.
18. Winner, Football. Block Rural Competition, Sports Development Authority of Tamil Nadu. January 2014.
19. Runners up, Mime. Inter-Collegiate Arts, Tamil Nadu Agricultural University. January 2014.
20. Winner, Ball badminton. Inter-Collegiate Tournament and Sports Meet, Tamil Nadu Agricultural University. February 2014.
21. National Service Scheme – 2010 to 2012.
22. Winner, Football. Inter-Collegiate Tournament and Sports Meet, Tamil Nadu Agricultural University. February 2012.
23. Class Representative, 2010 B.Sc. Forestry, Tamil Nadu Agricultural University. 2012.
24. Winner, Football. Block Rural Competition, Sports Development Authority of Tamil Nadu. November 2011.
25. Winner, Hockey. Block Rural Competition, Sports Development Authority of Tamil Nadu November 2011.
26. Runners up, Marching Band. The Muvattupuzha Sub District School’s Youth Festival, November 2007.
27. Bharat Scouts and Guides – 2001to 2007.

### **Languages Proficiency**

1. Malayalam (Mother tongue)
2. English (Full professional proficiency)
3. Hindi (Professional)
4. Tamil (Elementary)

### **REFERENCES**

- i. Anil Raj Kizha., Ph.D.  
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School of Forest Resources,  
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