

**PETE BETTINGER**  
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 SCHOOL OF FORESTRY AND NATURAL RESOURCES  
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#### CURRICULUM VITAE

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#### EDUCATION

Ph.D., Forest Resources, Oregon State University, 1996.  
 M.S., Forest Economics / Management, Virginia Polytechnic Institute and State University, 1989.  
 B.S., Forestry, Virginia Polytechnic Institute and State University, 1987.

#### ACADEMIC POSITIONS HELD

Leon "Buddy" Hargreaves Jr. Distinguished Professor in Forest Management, University of Georgia, 2019-present.  
 Professor, School of Forestry and Natural Resources, University of Georgia, 2009-present.  
 Interim Associate Dean for Academic Affairs, School of Forestry and Natural Resources, University of Georgia, 2015.  
 Faculty Fellow, Institute of Artificial Intelligence, University of Georgia, 2004-present.  
 Associate Professor, School of Forestry and Natural Resources, University of Georgia, 2002-2009.  
 Assistant Professor–Senior Research, Department of Forest Resources, Oregon State University, 1998-2002.  
 Faculty Research Associate, Department of Forest Resources, Oregon State University, 1996.  
 Faculty Research Assistant, Department of Forest Engineering, Oregon State University, 1991-1993.

#### NON-ACADEMIC POSITIONS HELD

Geographic Information Systems Manager, Champion Pacific Timberlands, Inc., Puyallup, WA, 1997-1998.  
 Research Forester, Champion International Corporation, Puyallup, WA, 1996-1997.  
 Economist, USDA Forest Service, Pacific Northwest Research Station, Corvallis, OR, 1993-1996.  
 Volunteer, GIS Department, Siuslaw National Forest, Corvallis, OR, 1991-1994.  
 Research Forester, Procter & Gamble Cellulose, Perry, FL, 1990-1991.  
 Resource Planning Forester, Procter & Gamble Cellulose, Perry, FL, 1989-1990.  
 Forest Technician, Sierra Pacific Industries, Redding, CA, 1989.  
 Independent Contractor, Site preparation burning, Chesterfield, VA, 1987.  
 Forester (Cooperative ed.), Continental Forest Investments, Prince George, VA, 1985-1987; Taylor, FL, 1984.

#### FIELDS OF SPECIALIZATION

Forest Planning and Management, Harvest Scheduling, Geographic Information Systems, Global Positioning Systems

#### TEACHING EXPERIENCE

##### University of Georgia, Regular Academic Courses

*Advanced Forest Planning* (FORS 8450), 2003-2022.  
*Advanced GIS* (FORS 7210), 2005.  
*Aerial Photogrammetry in Forestry* (FORS 5650 / 7650), 2004-2021.  
*Describing Land* (FYOS 1001), 2016-2022.  
*Field Orientation and Measurements in Forest Resources* (FANR 3000), 2002-2022.  
*Forest Planning* (FORS 4710 / 6710), 2003-2022.  
*Forestry Information Systems* (FORS 5670 / 7670), 2012-2022.  
*GIS Applications in Forestry* (FORS 5630 / 7630 / 8980), 2007, 2009.  
*Introduction to Forestry* (FORS 1000 and FORS 1000E), 2014-2022.  
*Prescribed Fire* (FORS 5610 / 7610), 2006-2007.  
*Southern Forestry* (FORS 5700 / 7700), 2019-2022.  
*Understanding GPS* (FYOS 1001), 2014-2017.

### Oregon State University, Regular Academic Courses

*Accuracy Assessment of Remotely Sensed Databases* (Forest Resources 505), 2001.  
*Aerial Photograph Interpretation and Forest Measurements* (Forest Resources 220), 2000-2002.  
*Engineering Computations Laboratory* (Forest Engineering 215), 1995-1996.  
*Forest Data Management with Visual Basic* (Forest Resources 405 / 505), 2000-2001.  
*Forest Resource Planning and Decision Making* (Forest Resources 459), 2001.  
*GIS Applications in Forestry* (Forest Resources 499 / 599), 1999-2002.  
*Stand-Level Optimization* (Forest Resources 605), 2001.

### Continuing Education Courses

*Advanced ArcGIS with Raster Data*, University of Georgia (2011).  
*Aerial Photogrammetry Refresher*, University of Georgia (2004, 2010-2011).  
*Forests and Hurricanes: Impacts and Planning Considerations*, University of Georgia (2010, 2012, 2019).  
*Forest Data Management with Visual Basic*, Oregon State University (2000), University of Georgia (2003).  
*Forest Management I: Tree- and Stand-Level Decisions*, University of Georgia (2010-2012).  
*Forest Management II: Forest-Level Decisions*, University of Georgia (2011).  
*Forest Planning Heuristics*, University of Georgia (2011).  
*GPS for Beginners*, University of Georgia (2007-2014).  
*GPS Research in Natural Resources*, University of Georgia (2010, 2011).  
*Interpreting Aerial Images of Rural Landscapes*, University of Georgia (2018-2019).  
*Introduction to ArcView 3.x and ArcGIS 9.x*, University of Georgia (2007).  
*Introduction to ArcGIS*, University of Georgia (2008-2017).  
*Introduction to GPS*, University of Georgia (2018).  
*Managing Forest Landscapes for Ecosystem Values* (Tactical planning part), Oregon State University (1994-1995).  
*Map Making: The Basics*, University of Georgia (2016).  
*Online Mapping Services for Foresters*, University of Georgia (2012-2014).

### Distance Education Courses

*Forest Fragmentation and Land Use Change*, University of Georgia (2009). 1.5 CFE credits.  
*Introduction to GPS*, University of Georgia (2010). 1.0 CFE credits.  
*Online Learning in Applied Forestry*, University of Georgia (2022). Ten modules. 5.0 CFE credits.

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

Society of American Foresters, 1987-present.

- a. Working Group E2, Land Use Planning, Management, and Organization.
  - 1) Chair, 2001-2002; 2011-2012.
  - 2) Chair-Elect, 1999-2000.
  - 3) Secretary, 2005-2007, 2012-2014.
- b. Oconee Chapter (GA) 2002-present.
- c. Mary's Peak Chapter (OR) 1991-1996, 1998-2002.
  - 1) Delegate at Large, 1994.
- d. South Puget Sound Chapter (WA) 1996-1998.
- e. Choctawhatchee Chapter (FL) 1989-1991.
- f. Virginia Tech Student Chapter 1987-1989.

Xi Sigma Pi, 1985-present.

## **OTHER PROFESSIONAL ACTIVITIES**

### Membership on Editorial Boards - Current

*European Journal of Forest Engineering*, 2015-present.  
*Forest Science*, 2005-present.  
*Forests*, 2017-present.  
*Journal of Forest Planning*, 2017-present.  
*Journal of Sustainable Forestry*, 2004-present.  
*Mathematical and Computational Forestry & Natural-Resource Sciences*, 2008-present.  
*Silva Fennica*, 2019-present

### Membership on Editorial Boards - Past

*International Journal of Forestry Research*, 2008-2009.  
*Research Journal of Forestry*, 2010-2015.  
*Southern Journal of Applied Forestry* (Guest Associate Editor), 2013.  
*The Open Forest Science Journal*, 2011-2015.  
*Western Journal of Applied Forestry*, 1998, 2006-2013.

### International Activities and Associations

Coordinator, IUFRO Division 4.04.00 - Forest management planning, 2020-present.  
 Deputy Coordinator, IUFRO Division 4.04.00 - Forest management planning, 2017-2019.  
 Facilitated the development of an International Cooperative Agreement between Istanbul University (Turkey) and the University of Georgia, 2012.  
 Facilitated the development of an International Cooperative Agreement between Duzce University (Turkey) and the University of Georgia, 2013.

### Service to Review Teams

Member, USDA CSREES Review Team, Forest Management Department, University of Maine, 2003.  
 Member, USDA CSREES Review Team, Forest Ecosystem Science Department, University of Maine, 2003.  
 Coordinator, External Independent Review process for USDA Forest Service, Northern Region, vegetation management treatment scheduling process, 2006.  
 Member, Forest Management and Operations BSF Degree Review Team, University of British Columbia, 2015.

### Service to Conference Planning Teams

Conference Chair, 4<sup>th</sup> Southern Forestry and Natural Resources GIS Conference, Athens, GA, 2004.  
 Conference Chair, 5<sup>th</sup> Southern Forestry and Natural Resources GIS Conference, Asheville, NC, 2006.  
 Conference Chair, 6<sup>th</sup> Southern Forestry and Natural Resources GIS Conference, Orlando, FL, 2008.  
 Conference Chair, 8<sup>th</sup> Southern Forestry and Natural Resources GIS Conference, Athens, GA, 2011.  
 Conference Chair, 9<sup>th</sup> Southern Forestry and Natural Resources GIS Conference, Athens, GA, 2013.  
 Conference Chair, 10<sup>th</sup> Southern Forestry and Natural Resource Management GIS Conference, Athens, GA, 2015.  
 Conference Chair, 11<sup>th</sup> Southern Forestry and Natural Resource Management GIS Conference, Athens, GA, 2017.  
 Conference Chair, 13<sup>th</sup> Southern Forestry and Natural Resource Management GIS Conference, Athens, GA, 2021.  
 Planning Committee Member, 7<sup>th</sup> Southern Forestry and Natural Resources GIS Conference, Athens, GA, 2009.  
 Planning Committee Member, 12<sup>th</sup> Southern Forestry and Natural Resources GIS Conference, Athens, GA, 2019.  
 Planning Committee Member, 13<sup>th</sup> Symposium on Systems Analysis in Forest Resources, Charleston, SC, 2009.  
 Program Committee Member, 8<sup>th</sup> International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM 2022).  
 Program Committee Member, 9<sup>th</sup> International Conference on Geographical Information Systems Theory, Applications and Management (GISTAM 2023).  
 Scientific Committee Member, International IUFRO Conference on Sustainable Harvest Scenarios in Forest Management (IUFRO WP 4.04.10), Prague, Czech Republic, 2018.  
 Scientific Committee Member, 1<sup>st</sup> International Symposium of Forest Engineering and Technologies, Bursa, Turkey, 2015.

### Service to Journal Review Processes

*Acta Forestalia Fennica*, *African Journal of Agricultural Research*, *African Journal of Environmental Science and Technology*, *AIMS Geosciences*, *Ambio*, *Applied Geography*, *Applied Mathematical Modelling*, *Applied Remote Sensing*, *Asian Journal of Applied Sciences*, *Asian Journal of Research in Agriculture and Forestry*, *Austrian Journal of Forest Science*, *Automation in Construction*, *BC Journal of Ecosystems & Management*, *Biodiversitas Journal of Biological Diversity*, *Biomass and Bioenergy*, *BMC Ecology*, *Bosque*, *Canadian Journal of Forest Research*, *Canadian Journal of Remote Sensing*, *Carbon Balance and Management*, *Carbon Management*, *Climate Policy*, *Computers and Electronics in Agriculture*, *Croatian Journal of Forest Engineering*, *Current Forestry Reports*, *Data*, *East African Agricultural and Forestry Journal*, *Ecological Applications*, *Ecological Economics*, *Ecological Modelling*, *Ecosphere*, *Energy Policy*, *Environmental Engineering and Management Journal*, *Environmental Management*, *Environmental Monitoring and Assessment*, *Environmental Practice*, *European Journal of Forest Research*, *European Journal of*

*Operational Research, Forest Ecology and Management, Forest Policy and Economics, Forest Science, Forest Systems, Forestry, Forestry Ideas, Forests, Frontiers in Plant Science, Geocarto International, Geographical Analysis, GIScience & Remote Sensing, Global Change Biology, Information Systems and Operations Research (INFOR), International Forestry Review, International Journal of Agricultural Resources, Governance and Ecology, International Journal of Applied Geospatial Research, International Journal of Environmental Engineering, International Journal of Forest Engineering, International Journal of Forestry Research, International Journal of Geography and Geography Education, International Journal of Production Economics, International Journal of Remote Sensing Applications, International Journal of Wildland Fire, International Transactions in Operations Research, Irish Forestry, Journal of Applied Ecology, Journal of Cleaner Production, Journal of Emergency Management, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Forest Economics, Journal of Forest Research, Journal of Forestry, Journal of Forestry Research, Journal of Plant Sciences, Journal of Sustainable Forestry, Journal of the American Water Resources Association, Land Use Policy, Landscape Ecology, Landscape and Urban Planning, Mathematical Biosciences and Engineering, Mathematical and Computational Forestry & Natural-Resource Sciences, Natural Resources Modeling, Nature Sustainability, New Zealand Journal of Forest Science, Northern Journal of Applied Forestry, Open Journal of Forestry, Operations Research Perspectives, Pesquisa Agropecuária Tropical, Photogrammetric Engineering and Remote Sensing, PLoS ONE, Remote Sensing, Renewable & Sustainable Energy Reviews, Research Journal of Forestry, Revista Bosque, Scandinavian Journal of Forest Research, Science of the Total Environment, Scientific Research and Essays, Sensors, Silva Fennica, SINTEF Applied Mathematics (Norway), Small-Scale Forest Economics, Management, and Policy, SN Applied Sciences, Southeastern Geographer, Southern Journal of Applied Forestry, Sustainability, The Extractive Industries and Society, The Forestry Chronicle, The International Forestry Review, The Open Forest Science Journal, Transactions of the ASABE, Transportation Research Part A: Policy and Practice, Transportation Research Record, Tree Physiology, Trees, Forests & People, Urban Forestry & Urban Greening, and Western Journal of Applied Forestry.*

#### Service as an External Examiner of PhD Dissertations

University of New Brunswick, 2001.  
 University of British Columbia, 2004.  
 University of Eastern Finland, 2018.  
 Lakehead University, 2018.

#### Service for Proposal Review Processes

Academy of Finland, Division of Natural Sciences and Engineering, 2022.  
 Chile National Commission for Scientific and Technological Research Program (FONDECYT 2011), 2010.  
 Chile National Commission for Scientific and Technological Development Program (FONDECYT 2012), 2011.  
 Humboldt State University McIntire-Stennis program, 2019.  
 Maryland Sea Grant Omnibus 2011-2012 pre-proposal review, 2010.  
 Maryland Sea Grant Omnibus 2011-2012 full proposal review, 2010.  
 NASA Postdoctoral Program, 2013, 2015.  
 Natural Sciences and Engineering Research Council of Canada, Collaborative Research and Development Program, 2013.  
 Natural Sciences and Engineering Research Council of Canada, Discovery Grant program, 2006, 2011, 2022.  
 Natural Sciences and Engineering Research Council of Canada, Discovery Grant Research Evaluation Group, 2015-2018.  
 National Science Foundation, 2006.  
 National Science Foundation EPSCoR Research Infrastructure Improvement Grant Program (RII), 2005.  
 Northern Arizona University, Mission Research Program, 2013.  
 Small Business Innovation Research program, USDA Cooperative State Research Education and Extension Service, 2001, 2005-2006, 2018-2019.  
 Sustainable Forest Management (SFM) Network (University of Alberta, Canada), 2004.  
 USDA CSREES National Research Initiative, 2005.  
 USDA NIFA Small Business Innovation Research 8.1 Phase I program, 2022.  
 USDA NIFA Small Business Innovation Research 8.1 Phase II program, 2021.  
 Virginia Tech McIntire-Stennis program, 2009.

### Other Service

- Asian Council of Science Editors, Member, 2021–Present.
- ESRI Forestry Group, Steering Committee Member, 2022.
- ESRI Press, Book proposal reviewer, 2012.
- ESRI SpatiaLAB project, Reviewer, 2010.
- Georgia Tree Farm Program, Executive Committee Member, 2017-present.
- Springer, Book proposal reviewer, 2010.

### **HONORS AND RECOGNITION**

- 2023. Award in Forest Science, Society of American Foresters.
- 2021. Regional Award, U.S. Department of Agriculture National Awards Program for Excellence in College and University Teaching in the Food and Agricultural Sciences.
- 2020. Member, University of Georgia Teaching Academy.
- 2020. Carl Alwin Schenck Award, Society of American Foresters.
- 2018. Fellow, Society of American Foresters.
- 2018. 2<sup>nd</sup> Degree Rector's Prize for Scientific Achievements, Warsaw University of Technology.
- 2017. Faculty Award for Outstanding Teaching, School of Forestry and Natural Resources, University of Georgia.
- 2016. Creative Research Medal, University of Georgia.
- 2012. Xi Sigma Pi Herrick Professor of the Year, School of Forestry and Natural Resources, University of Georgia.
- 2011. Outstanding Teacher, School of Forestry and Natural Resources, University of Georgia.
- 2009. Southeastern Society of American Foresters, Award of Excellence, Research and Development.
- 2009. Honorary Member, AGHON (The University of Georgia Agricultural Honorary Society).
- 2007. Society of American Foresters Working Group Merit Award. In recognition of a significant contribution to the Society of American Foresters Science Program, the officers of the E2 Working Group (Land use planning, organization, and management) were recognized for superior service to the Society of American Foresters.
- 2006. Herrick Superior Teaching Award, School of Forest Resources, University of Georgia.
- 2005. Xi Sigma Pi Outstanding Professor in Forest Resources, School of Forest Resources, University of Georgia.
- 1999. Certified Forester #866, Society of American Foresters (re-certified 2017).
- 1992, 1995, 1998, 2002. Continuing Forestry Education Certificate, Society of American Foresters.
- 1994. Saubert Fellowship, Oregon State University.
- 1993. American Society for Photogrammetry and Remote Sensing, Columbia River Region Scholarship.
- 1993. J.R. Dilworth Fellowship, Oregon State University.
- 1988. Outstanding Member, Xi Sigma Pi, Chi Chapter, VPI.
- 1987. Outstanding Member, Xi Sigma Pi, Chi Chapter, VPI.

### **PUBLICATIONS**

#### Books

- Merry, K., P. Bettinger, M. Crosby, and K. Boston. 2023. *Geographic information system skills for foresters and natural resource managers*. Elsevier, Amsterdam. 396 p.
- Grebner, D.L., P. Bettinger, J.P. Siry, and K. Boston. 2022. *Introduction to Forestry and Natural Resources. Second edition*. Academic Press, London. 494 p.
- Bettinger, P., K. Merry, and K. Boston. 2020. *Mapping Human and Natural Systems*. Academic Press, London. 341 p.
- Bettinger, P., K. Boston, J.P. Siry, and D.L. Grebner. 2017. *Forest Management and Planning. Second edition*. Academic Press, London. 349 p.
- Siry, J.P., P. Bettinger, K. Merry, D.L. Grebner, K. Boston, and C. Cieszewski (eds.). 2015. *Forest Plans of North America*. Academic Press, London. 458 p.
- Grebner, D.L., P. Bettinger, and J.P. Siry. 2013. *Introduction to Forestry and Natural Resources*. Academic Press, London. 496 p.
- Bettinger, P., K. Boston, J.P. Siry, and D.L. Grebner. 2012. *Forest Management and Planning (Chinese translation)*. Ke'Ai Communications, Beijing, China. 394 p.
- Bettinger, P. 2011. *Forest planning desk reference: Terminology and examples*. LAP Lambert Academic Publishing, Saarbrücken, Germany. 102 p.
- Bettinger, P., and K.L. Merry. 2011. *Global navigation satellite system research in forest management*. LAP Lambert

- Academic Publishing, Saarbrücken, Germany. 64 p.
- Bettinger, P., K. Boston, J.P. Siry, and D.L. Grebner. 2009. *Forest Management and Planning*. Academic Press, London. 331 p.
- Wing, M.G., and P. Bettinger. 2008. *Geographic Information Systems: Applications in Natural Resource Management*. Oxford University Press, Canada. Don Mills, ON. 268 p.
- Davis, L.S., K.N. Johnson, P. Bettinger, and T.E. Howard. 2005. *Forest Management. Fourth edition*. Waveland Press, Inc., Long Grove, IL. 804 p.
- Bettinger, P., and M.G. Wing. 2004. *Geographic Information Systems: Applications in Forestry and Natural Resources Management*. McGraw-Hill, Inc., New York. 230 p.
- Davis, L.S., K.N. Johnson, P.S. Bettinger, and T.E. Howard. 2001. *Forest Management. Fourth edition*. McGraw-Hill, Inc., New York. 804 p.s

#### Refereed Journal Articles

- Bayat, M., P. Bettinger, S.H. Masteali, S.K. Hamidi, H.U.M. Awan, and A. Abolhasani. 2023. Recreation potential assessment at Tamarix forest reserves: A method based on multi-criteria evaluation approach and landscape metrics. *Forests*. 14(4): Article 705.
- Lee, T., P. Bettinger, K. Merry, and C. Cieszewski. 2023. The effects of nearby trees on the positional accuracy of GNSS receivers in a forest environment. *PLoS ONE*. 18(3): e0283090.
- Vatandaşlar, C., P. Bettinger, A.R. Gutierrez Garzon, K. Merry, K. Boston, T. Lee, and J. Uzu. 2023. Sustainability language in forest management plans: A comparative analysis for public forests of the US and Turkey. *Forests*. 14(3): Article 447.
- Dong, L., P. Bettinger, and Z. Liu. 2023. Periodic harvests, rather than passive conservation, increase the carbon balance of boreal forests much more in northeast China. *Forest Ecology and Management*. 530: Article 120777.
- Bettinger, P., K. Merry, S. Fei, A. Weiskittel, and Z. Ma. 2023. Usefulness and need for digital technology to assist forest management: Summary of findings from a survey of registered foresters. *Journal of Forestry*. 121(1): 1-11.
- Masteali, S.H., P. Bettinger, M. Bayat, B.J. Amiri, and H.U.M. Awan. 2023. Comparison between graph theory connectivity indices and landscape connectivity metrics for modeling river water quality in the southern Caspian Sea basin. *Journal of Environmental Management*. 328: Article 116965.
- Hiegel, A., J. Siry, P. Bettinger, and B. Mei. 2022. Timberland transaction costs: survey results and insights. *Journal of Forest Business Research*. 1(1): 21-50.
- Dong, L., P. Bettinger, and Z. Liu. 2022. Maximizing the canopy openness for replanted Korean pine seedlings under secondary forests in northeast China. *Computers and Electronics in Agriculture*. 202: Article 107421.
- Uzu, J., P. Bettinger, J. Siry, and B. Mei. 2022. Timber business in West Africa: A review and outlook. *International Forestry Review*. 24(2): 240-256.
- Bettinger, P., K. Merry, and J. Stober. 2022. A hierarchical binary process model to assess deviation from desired ecological condition across a broad forested landscape in Alabama. *Land*. 11(6): Article 775.
- Lee, T., P. Bettinger, K. Merry, V. Bektaş, and C.J. Cieszewski. 2022. Mission impossible: Positions determined by basic mapping-grade and recreation-grade GNSS receivers cannot emulate the actual spatial pattern of trees. *Mathematical and Computational Forestry & Natural-Resource Sciences*. 14(1): 15-31.
- Restrepo, H.I., P. Bettinger, and B.P. Bullock. 2022. A theoretical minimum solution for heuristics: The case of the spatial timber harvest problem. *Computers & Operations Research*. 143: Article 105792.
- Bektas, V., P. Bettinger, N. Nibbelink, J. Siry, K. Merry, K.A. Henn, and J. Stober. 2022. Habitat suitability modelling of rare turkeybeard (*Xerophyllum Asphodeloides*) species in the Talladega National Forest, Alabama, USA. *Forests*. 13(4): Article 490.
- Gutierrez Garzon, A.R., T. Lee, K. Merry, V. Bektas, J. Cruise-Palmer, and P. Bettinger. 2022. Urban land use cover changes in three developed cities of the United States: San Diego, Denver, and Buffalo. *Heliyon*. 8(3): Article e09093.
- Kayhomayoon, Z., S.G. Milan, N.A. Azar, P. Bettinger, F. Babaian, and A. Jaafari. 2022. A simulation-optimization modeling approach for conjunctive water use management in a semi-arid region of Iran. *Sustainability*. 14(5): Article 2691.
- Dong, L., P. Bettinger, H. Qin, and Z. Liu. 2022. Optimizing rotation lengths for maximizing carbon balance of larch plantations in northeast China. *Journal of Cleaner Production*. 343: Article 131025.

- Gutierrez Garzon, A.R., P. Bettinger, J. Abrams, J.P. Siry, and B. Mei. 2022. Forest sustainability in state forest management plans: A content analysis. *Journal of Sustainable Forestry*. 41(1): 92-113.
- Merry, K., P. Bettinger, J. Siry, S. McNulty, and M. Gavazzi. 2022. Forester preferences on revising *Silvics of North America*: A survey of registered foresters in four states. *Journal of Forestry*. 120(1): 1-9.
- Ucar, Z., A.S. Değermenci, H. Zengin, and P. Bettinger. 2022. Evaluating the accuracy of remote dendrometers in tree diameter measurements at breast height. *Croatian Journal of Forest Engineering*. 43(1): 185-197.
- Demirci, M., A. Yeşil, and P. Bettinger. 2022. Introducing a new approach in stand tending planning and thinning block designation by using mixed integer goal programming. *Croatian Journal of Forest Engineering*. 43(1): 137-154.
- Dong, L., P. Bettinger, and Z. Liu. 2022. Optimizing neighborhood-based stand spatial structure: Four cases of boreal forests. *Forest Ecology and Management*. 506: Article 119965.
- Bayat, M., P. Bettinger, S. Heidari, S.K. Hamidi, and A. Jaafari. 2021. A combination of biotic and abiotic factors and diversity determine productivity in natural deciduous forests. *Forests*. 12(11): Article 1450.
- Bettinger, P., K. Merry, A.R. Gutierrez Garzon, T. Lee, J. Siry, S. McNulty, and M. Gavazzi. 2021. Stakeholder perceptions on the need for updated tree species distributions maps. *Forests*. 12(10): Article 1367.
- Jaafari, A., I. Pazhouhan, and P. Bettinger. 2021. Machine learning modeling of forest road construction costs. *Forests*. 12(9): Article 1169.
- Bayat, M., P. Bettinger, M. Hassani, and S. Heidari. 2021. Ten-year estimation of Oriental beech (*Fagus orientalis* Lipsky) volume increment in natural forests: a comparison of an artificial neural networks model, multiple linear regression and actual increment. *Forestry*. 94(4): 598-609.
- Fazeli-Varzaneh, M., P. Bettinger, E. Ghaderi-Azad, M. Kozak, D. Mafi-Gholami, and A. Jaafari. 2021. Forestry research in the Middle East: A bibliometric analysis. *Sustainability*. 13(15): Article 8261.
- Shabani, S., A. Jaafari, and P. Bettinger. 2021. Spatial modeling of forest stand susceptibility to logging operations. *Environmental Impact Assessment Review*. 89: Article 106601.
- Ezzati, S., C.D. Palma, P. Bettinger, L.O. Eriksson, and A. Awasthi. 2021. An integrated multi-criteria decision analysis and optimization modeling approach to spatially operational road repair decisions. *Canadian Journal of Forest Research*. 51(3): 465-483.
- Obata, S., C.J. Cieszewski, R.C. Lowe III, and P. Bettinger. 2021. Random forest regression model for estimation of the growing stock volumes in Georgia, USA, using dense Landsat time series and FIA dataset. *Remote Sensing*. 13(2): Article 218.
- Caglayan, İ., A. Yeşil, Ö. Kabak, and P. Bettinger. 2021. A decision making approach for assignment of ecosystem services to forest management units: A case study in northwest Turkey. *Ecological Indicators*. 121: Article 107056.
- Dong, L., P. Bettinger, and Z. Liu. 2021. Estimating the optimal internal carbon prices for balancing forest wood production and carbon sequestration: The case of northeast China. *Journal of Cleaner Production*. 281: Article 125342.
- Stober, J., K. Merry, and P. Bettinger. 2020. Analysis of fire frequency on the Talladega National Forest, USA, 1998-2018. *International Journal of Wildland Fire*. 29(10): 919-925.
- Gutierrez Garzon, A.R., P. Bettinger, J. Siry, J. Abrams, C. Cieszewski, K. Boston, B. Mei, H. Zengin, and A. Yeşil. 2020. A comparative analysis of five forest certification programs. *Forests*. 11(8): Article 863.
- Demirci, M., A. Yeşil, and P. Bettinger. 2020. Using mixed integer goal programming in final yield harvest planning: A case study from the Mediterranean region of Turkey. *Forests*. 11(7): Article 744.
- Reeves, T., B. Mei, J. Siry, P. Bettinger, and S. Ferreira. 2020. Effect of working forest conservation easements on surrounding property values. *Forest Policy and Economics*. 118: Article 102241.
- Reeves, T., B. Mei, J. Siry, P. Bettinger, and S. Ferreira. 2020. Towards a characterization of working forest conservation easements in Georgia, USA. *Forests*. 11(6): Article 635.
- Hiegel, A., J. Siry, P. Bettinger, and B. Mei. 2020. Timberland transaction costs and due diligence: a literature review and assessment of research needs. *International Forestry Review*. 22(2): 199-210.
- Lee, T., P. Bettinger, C.J. Cieszewski, and A.R. Gutierrez Garzon. 2020. The applicability of recreation-grade GNSS receiver (GPS watch, Suunto Ambit Peak 3) in a forested and an open area compared to a mapping-grade receiver (Trimble Juno T41). *PLoS ONE*. 15(4): e0231532.
- Obata, S., P. Bettinger, C.J. Cieszewski, R.C. Lowe III. 2020. Mapping forest disturbances between 1987–2016 using all available time series Landsat TM/ETM+ imagery: Developing a reliable methodology for Georgia, United States. *Forests*. 11(3): Article 335.

- Bayat, M., P. Bettinger, S. Heidari, A.H. Khalyani, M. Jourgholami, and S.K. Hamidi. 2020. Estimation of tree heights in an uneven-aged, mixed forest in northern Iran using artificial intelligence and empirical models. *Forests*. 11(3): Article 324.
- Gutierrez Garzon, A.R., P. Bettinger, J. Siry, B. Mei, and J. Abrams. 2020. The terms foresters and planners in the United States use to infer sustainability in forest management plans: A survey analysis. *Sustainability*. 12(1): Article 17.
- Merry, K., P. Bettinger, J. Siry, and J.M. Bowker. 2020. Preferences of motorcyclists to views of managed, rural southern United States landscapes. *Journal of Outdoor Recreation and Tourism*. 29: Article 100259.
- Kalbi, S., A. Fallah, S. Shataee, P. Bettinger, and R. Yousefpour. 2019. Growth and yield models for uneven-aged forest stands managed under a selection system in northern Iran. *Eurasian Journal of Forest Science*. 7(3): 321-333.
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#### Book Chapters

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