Christopher M. Wade

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EDUCATION

Ph.D. Student, Forestry Economics, North Carolina State University, Current
Concentrations: Forest Carbon and Policy, Management of Coastal Resources
Advisor: Dr. Justin S. Baker

M.S., Forest Economics, Policy, and Management, Virginia Tech, 2016
Concentration: Economics of Water
Thesis: Groundwater Pumping Decisions and Land Subsidence in the Southern Chesapeake Bay Region of Virginia
Advisor: Dr. Kelly M. Cobourn

B.S., Business Administration (concentration: Economics), University of North Carolina at Wilmington, 2013

TEACHING EXPERIENCE

Course instructor, Environmental Economics (ECO 311): Meredith College, Raleigh, NC, fall 2017

Teaching Assistant, Forest Resource Policy (FOR 4434): Virginia Tech, Blacksburg, VA, fall 2015

Lab Assistant, Land and Field Measurements (FOR 2214): Virginia Tech, Blacksburg, VA, fall 2014

PROFESSIONAL EXPERIENCE

Research Economist, RTI International, 2016 – present

Graduate Research Assistant, Virginia Tech, 2014 – 2016

Project Assistant, Pharmaceutical Product Development (PPD), 2013 – 2014

PUBLICATIONS

Wade, C. M., Baker, J. S., Jones, J. P.H., Austin, K. G., Cai, Y., Bean, A., Latta, G. S., Ohrel, S. B., Ragnauth, S., Creason, J., & McCarl, B. (In Press). Projecting the impact of socioeconomic and policy factors on greenhouse gas emissions and carbon sequestration in U.S. forestry and agriculture. *Journal of Forest Economics.*

Austin, K., Baker, J. S., Sohngen, B. L., Wade, C. M., Daigneault, A., Ohrel, S. B., … & Bean, A. (2020). The economic costs of planting, preserving, and managing the world's forests to mitigate climate change. *Nature Communications, 11*(1), 1-9.

Wade, C. M., Austin, K. G., Lapidus, D., Everett, K. H., Galperin, D., Maynard, R., & Sobel, A. (2020). What's threatening forests in protected areas? A global assessment of deforestation in protected areas, 2001–2018. *Forests*, *11*(5), 539. https://doi.org/10.3390/f11050539

Wade, C. M., Baker, J. S., Latta, G. S., Ohrel, S. B., and Allpress, J. (2019). Projecting the spatial distribution of possible planted forest expansion in the United States. *Journal of Forestry, 117*(6), 560-578. https://doi.org/10.1093/jofore/fvz054

Jones, J. P. H., Baker, J. S., Austin, K., Latta, G. S., Wade, C. M., Cai, Y., ... Cole, J. (2019). Importance of cross-sector interactions when projecting forest carbon across alternative socioeconomic futures. *Journal of Forest Economics*, *34*(3–4), 205–231. https://doi.org/10.1561/112.00000449

Wade, C. M., Baker, J. S., Latta, G. S., & Ohrel, S. (2019). Evaluating potential sources of aggregation bias with a structural optimization model of the U.S. forest sector. *Journal of Forest Economics*, *34*(3–4), 337–366. https://doi.org/10.1561/112.00000503

Baker, J. S., Wade, C. M., Sohngen, B. L., Ohrel, S., & Fawcett, A. A. (2019). Potential complementarity between forest carbon sequestration incentives and biomass energy expansion. *Energy Policy, 126*, 391–401. https://doi.org/10.1016/j.enpol.2018.10.009

Larson, J. J., Baker, J., Wade, C., Ohrel, S., & Latta, G. (2018). Modeling international trade of forest products: Application of PPML to a gravity model of trade. *Forest Products Journal, 68*(3), 303–316.

Wade, C. M., Cobourn, K. M., Amacher, G. S., & Hester, E. T. (2018). Policy targeting to reduce economic damages from land subsidence. *Water Resources Research, 54*(7), 4401–4416. https://doi.org/10.1029/2017WR022133

Cai, Y., Wade, C., Baker, J. S., Jones, J. P. H., Latta, G. S., Ohrel, S., ... Creason, J. (2018). *Implications of alternative land conversion cost specifications on projected afforestation potential in the United States*. (RTI Press Publication No. OP-0057-1811). Research Triangle Park, NC: RTI Press. https://doi.org/10.3768/rtipress.2018.op.0057.1811

OTHER PUBLICATIONS

Baker, J.S., Van Houtven, G., Cai, Y., Moreda, F., Wade, C.M., Henry, C., Redmon, J.H., and Kondash, A.J. (2021). *A Hydro-Economic Methodology for the Food-Energy-Water Nexus: Valuation and Optimization of Water Resources.* RTI Press Publications No. MR-0044-2105. Research Triangle Park, NC: RTI Press. https://doi.org/10.3768/rtipress.2021.mr.0044.2105.

Wu, C. G., Baker, J. S., McCord, G. C., & Wade, C. M. (2020). Pathways to Sustainable Land-Use and Food Systems in the United States by 2050. In *Pathways to Sustainable Land-Use and Food Systems, 2020 Report of the FABLE Consortium.* Sustainable Development Solutions Network, New York.

Wade, C. M. (2016, summer). *Groundwater pumping decisions and land subsidence in the southern Chesapeake Bay region of Virginia*. Master's thesis, Virginia Tech, Blacksburg, VA.

MEDIA AND COMMUNICATIONS

Lord, B. G., & Wade, C. M. (2019). *Supporting sustainable development pathways in the Philippines through hydroeconomic modeling* (RTI International Insights Blog). Blogs & Web publications, RTI International. https://www.rti.org/insights/supporting-sustainable-development-pathways-philippines-through-hydroeconomic-modeling

PRESENTATIONS AND PROCEEDINGS

Wade, Christopher M., Baker, J. S., & Cobourn, K. M. (2021). *When the Land Falls Away: Sustainable Groundwater Management to Limit Damages from Subsidence.* Camp Resources 2021. Asheville, NC.

Quebbeman, J., Carney, S., van Houtven, G., & Wade. C. M. (2021). *Portfolio-level risk in support of an economic and financial analysis: a World Bank case study with extensions in the US.* National Dam Safety Program Technical Seminar (K8535). Virtual.

Wade, C. M., Baker, J. S., Lillys, T., Richkus, J., & Cobourn, K. (2019). *Groundwater Management and Limiting Damages from Land Subsidence: A Spatial Optimization Approach.* Southern Economic Association Annual Meeting, Fort Lauderdale, FL.

Jones, J. P. H., Cai, Y., Baker, J. S., Latta, G. S., & Wade, C. (2018). *The importance of cross-sector dynamics when projecting forest carbon under alternative socioeconomic futures.* Forestry and Agriculture GHG Modeling Forum, Shepherdstown, WV.

Jones, J. P. H., Cai, Y., Baker, J. S., Latta, G. S., & Wade, C. (2018). *Projecting U.S. forest and agricultural land management across shared socio-economic pathways.* Forestry and Agriculture GHG Modeling Forum, Shepherdstown, WV.

Jones, J. P. H., Cai, Y., Baker, J. S., Latta, G. S., Wade, C., & Aramayo Lipa, L. (2018). *Estimating U.S. GHG mitigation potential with FASOMGHG 2.0.* International Society of Forest Resource Economist Annual Meeting, Gatlinburg, TN.

Sohngen, B., Baker, J. S., Wade, C., Ohrel, S., & Ragnauth, S. A. (2018). *Efficiency, complementarity, and other policy considerations for forest sector GHG abatement.* Forestry and Agriculture GHG Modeling Forum, Shepherdstown, WV.

Wade, C. M., Baker, J. S., & Sohngen, B. (2018). *Updated regionalized marginal abatement cost curves for the forestry sector.* Presented at the 2018 International Society of Forest Resources Economists Conference, Gatlinburg, TN.

Cai, Y., Wade, C. M., Baker, J. S., Jones, J. P., & Latta, G. (2018). *Comparing average cost and marginal cost assumptions for regional afforestation.* Presented at the 2018 International Society of Forest Resources Economists Conference, Gatlinburg, TN.

Baker, J. S., Sohngen, B., Wade, C., & Ohrel, S. (2017). *Potential complementarity between forest carbon sequestration and biomass energy expansion.* American Agricultural Economics Association Annual Meeting, Chicago, IL.

Wade, C. M., Baker, J. S., Latta, G., & Allpress, J. (2017). *Estimating future expansion of planted forests in the United States.* Presented at the 2017 Southern Economic Association Annual Meetings, Tampa, FL.

Wade, C. M. (2016, spring). *Groundwater pumping decisions and land subsidence in the southern Chesapeake Bay region of Virginia.* Presented as part of the Virginia Tech Department of Forest Resources and Environmental Conservation Seminar Series, Blacksburg, VA.

Wade, C. M. (2015, fall). *Groundwater pumping decisions and land subsidence in Coastal Virginia.* Poster presented at the Water Resources Conference of the Virginias, Roanoke, WV.