

Meghann Newell Smith

Email: smithmeg@montclair.edu, Office: 975-655-3123

PROFESSIONAL SUMMARY

Experienced professor and researcher with academic interests in clean energy development, environmental economics, sustainable agriculture, and food studies. Skilled in survey development, statistical analysis, environmental life cycle analysis, life cycle costing, and risk assessment. Practiced in community outreach and education, public speaking, and technical writing.

EXPERIENCE

Assistant Professor, Clean Energy and Sustainability Analytics Center and the College of Science and Mathematics, Montclair State University (Aug. 2022-Present)

Teaching within the Earth and Environmental Sciences department including courses such as environmental economics and sustainable urban development. Conduct environmental science, economics, and policy research with the Clean Energy and Sustainability Analytics Center by applying technical, strategic, and critical analysis techniques on subjects including clean energy development, sustainable agriculture and land management, and stakeholder assessment. Supervise and mentor graduate and undergraduate student researchers on grant-awarded and client projects, in addition to student thesis/dissertation research. Collaborate and engage with multiple universities, government officials, regulatory agencies, and other consultants to produce results that meet the nature of the research needs. Disseminate research through publishing in academic journals, public and private reports, and presenting in both academic and professional conferences. Applied techniques include life cycle analysis, economic analysis, stakeholder surveys and interviews, statistical analysis, and literature review. Lead the planning and organization of the annual Clean and Sustainable Energy Summit, including recruiting session speakers and attendees, directing speaking sessions, providing support throughout the meeting, coordinating room and dining logistics, and managing volunteers.

Research Associate, Clean Energy and Sustainability Analytics Center, Montclair State University (Feb. 2021-Aug. 2022)

Conducted clean energy and sustainable development research in collaboration with multiple universities and professional partners to meet client needs' per the nature of the research project. Mentored multiple graduate and undergraduate student researchers, hosting workshops for applied techniques including environmental and economic assessment methods, survey development and analysis, and statistical analysis. Planned, organized, and presented during the Clean and Sustainable Energy Summit.

Graduate Assistant, College of Science and Mathematics, Montclair State University (Aug. 2017 – Jan. 2021)

Served as a research assistant with the Clean Energy and Sustainability Analytics Center, partaking in several grant- and client-funded research projects. Held a lead role in organizing several large academic events including the 2018 Middle States Conference, and Annual Clean and Sustainable Energy Summit (from 2018). Also served as a teaching assistant, teaching multiple courses in environmental studies undergraduate and graduate programs with topics including environmental economics and policy, earth science, and urban studies. Courses: EAES-101, EAES-160, EAES-575, EAES-584

Professor, School of Business, Mathematics, Engineering and Technology, County College of Morris (Aug. 2014 – Dec. 2019)

Taught courses in the Hospitality Management and Culinary Arts department with topics including food science and nutrition, safe food handling, professional cooking and production. Courses: HOS-100, HOS-101, HOS-103, HOS-105.

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Laboratory Supervisor, Hospitality & Culinary Arts Dept., School of Business, Mathematics, Engineering and Technology, County College of Morris (Sept. 2013 – Aug. 2017)

Oversaw department operation including facility maintenance, supply purchases, managing budget, lab curriculum development, community outreach and on-campus engagement. Assisted faculty who used the labs with equipment support, laboratory preparation, and student support. Organized and oversaw the student-led annual campus holiday party, high school recruitment lunch-and-learns, and professional/business dining etiquette workshops. Supported non-credit workforce development cooking and baking courses. Designed and taught children's cooking and baking classes during annual summer camp, Future Stars (ages 4-13), and College for Kids (ages 14-18).

Adjunct Professor, Department of Human Ecology, Montclair State University (June – Aug. 2017)

Taught Quantity Food Applications, a capstone lecture and laboratory course covering concepts of quantity food purchasing and production, including hands-on skills to produce culinary products in large quantities. Course: NUFD-350.

EDUCATION

Doctor of Philosophy, Environmental Science and Management
Montclair State University, College of Science and Mathematics

Master of Science, Nutrition and Food Science
Montclair State University, College of Education and Human Services

Bachelor of Science, Nutrition and Dietetics
University of Arizona, College of Agriculture and Life Sciences

MANUSCRIPTS IN REVIEW

Oluoch, S., Lal, P., Wolde, B., Smith, M. (in review) Consumer preferences for wood-pellet based green energy programs in the Eastern United States. Submitted to *Energy Economics*.

Nguyen, H.T.G., Lal, P., Oluoch, S., Smith, M., Sullivan, W., Tran, L. (in review) Farmers' Perceptions on Ecosystem Services of Flooding in Vietnam's Mekong Delta. Submitted to *Journal of Environmental Management*.

Smith, M., Lal, P., Vedwan, N. (in review) Motivations of Farmer's Management Decisions and Willingness to Adopt Sustainable Practices. Submitted to *Journal of Environmental Management*.

PUBLICATIONS

Smith, M., Lal, P. (2022) Environmental and economic assessment of hard apple cider using an integrated LCA-LCC approach. *Sustainable Production and Consumption*. <https://doi.org/10.1016/j.spc.2022.04.026>

Oluoch, S.O., Lal, P., Susaeta, A., Smith, M., Wolde, B. (2021) Consumer Preference for Wood-Pellet Based Green Energy Programs in the Eastern United States. Available at SSRN: <https://ssrn.com/abstract=3980379>

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Smith, M., Bevacqua, A., Tembe, S., Lal, P. (2021) Life Cycle Analysis (LCA) of residential ground source heat pump systems: A comparative analysis of energy efficiency in New Jersey. *Sustainable Energy Technologies and Assessments*, 47, 101364. <https://doi.org/10.1016/j.seta.2021.101364>.

Prasad, A., Lal, P., Wolde, B., Smith, M., Zhu, M., Samanthula, B.K., Panorkou, N. (2021) Exploring the human-nature connection and the perceived risk of nature in children. *Applied Environmental Education & Communication*. <https://doi.org/10.1080/1533015X.2021.1991508>

Smith, M., Lal, P., Oluoch, S., Vedwan, N., Smith, A. (2021) Valuation of Sustainable Attributes of Hard Apple Cider: A Best-Worst Choice Approach. *Journal of Cleaner Production*, 318, 128478. <https://doi.org/10.1016/j.jclepro.2021.128478>.

Oluoch, S., Lal, P., Wolde, B., Susaeta, A., Soto, J.R., Smith, M., Adams, D.C. (2021) Public Preferences for Longleaf Pine Restoration Programs in the Southeastern United States. *Forest Science*, 67, 3, 265-274. <https://doi.org/10.1093/forsci/xfab008>

Smith, M. (2020) Sustainability of Hard Apple Cider: An Environmental and Socio-Economic Assessment. Dissertation. Montclair State University, Montclair, New Jersey, USA.

Smith, M., Nguyen, G., Wiczerak, T., Wolde, B., Lal, P., Munsell, J. (2019) Stakeholders' Perceptions of Geographical Criteria for Loblolly Pine Management for Bioenergy Production in Virginia. *Forests*, 10, 9, 801, 1-17. <https://doi.org/10.3390/f10090801>

Smith, M., Nguyen, G., Wiczerak, T., Wolde, B., Lal, P., Munsell, J. (2019) Bioenergy: Opportunities and Challenges. *Virginia Forests Fall 2019 issue*, 15-17.

Smith, M., Lal, P. (2017) Hard Apple Cider in the New York Hudson Valley Region: A Tourism Study. *Middle States Geographer*, 50: 28-38.

Smith, M. (2017) Artisanal Cider and the Craft Beverage Consumer Tourist Experience. Thesis. Montclair State University, Montclair, New Jersey, USA.

TECHNICAL REPORTS

Lal, P., Smith, M., Sarkar, A., Ranjan, A., Wolde, B., Nguyen, G. (2022) New Jersey Fuel Cell Task Force Report. Clean Energy and Sustainability Analytics Center. Prepared for the New Jersey Fuel Cell Task Force, United States Department of Energy.

Lal, P., Birur, D., Wolde, B., Levin, Todd., Zhou, Z., Thimmapuram, P., Provost, N., Wiczerak, T., Lyttek, E., Prasad, A., Smith M. (2021) Economic Assessment of New Jersey Re-joining Regional Greenhouse Gas Initiative (RGGI). Clean Energy and Sustainability Analytics Center and Argonne National Laboratory. Prepared for New Jersey Board of Public Utilities.

Lal, P., Masozera, M., Kaiytare, A., Banerjee, O., Cicoweiz, M., Wolde, B., Ranjan, A., Bagstad, K., Alavalapati, J., Lyttek, E., Nguyen, G., Birur, D., Wiczerak, T., Smith, M., Luong, T., Oluoch, S. (2020) Achieving Green Growth Through Terrestrial Natural Capital Restoration in Rwanda. Clean Energy and Sustainability

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Analytics Center. Prepared for the Green Growth Knowledge Platform and GIZ's The Economics of Land Degradation Initiative.

Messina, F.J., Nadeau, S.C., Lal, P., Stern, E.A., Singh, J., Smith, M., Wiczerak, T. (2018) Sustainability Regulatory Integration and Reform for Superfund Sediment Remediation Projects: A White Paper. Prepared for the Sediment Management Working Group.

CONFERENCE PAPERS

Nguyen, G., Lal, P., Lyttek, E., Smith, M., Wiczerak, T. (2019) Assessing Bioenergy Potential Based on Loblolly Pine Residues Using GIS-based Models in Virginia. Society of American Foresters National Convention Paper Presentation, Louisville, KY, October 30.

Smith, M. (2019) Environmental Assessment of Hard Apple Cider. Middle States Association of American Geographers annual meeting Paper Presentation, Kutztown, PA, October 18-19.

Smith, M., Lal, P. (2019) Life Cycle Assessment (LCA) of the Hard Apple Cider Production System. International Conference for Sustainable Development Paper Presentation, New York, NY, September 24-25.

Smith, M. (2019) Environmental and Economic Assessment of Hard Apple Cider in the Northeastern U.S. Association of American Geographers annual meeting Paper Presentation, Washington, D.C., April 3-7.

Smith, M. (2018) Assessing the Characteristics of Tourists visiting Hard Apple Cideries in the Hudson Valley Region. Middle States Association of American Geographers annual meeting Paper Presentation, Montclair, NJ, October 26-27.

Smith, M., Lal, P. (2018) Exploring Consumer's Perceptions of Sustainably-Produced Wine and Beer: a systematic review. Montclair State University Student Symposium Paper Presentation, Montclair, NJ, April 27.

Smith, M. (2018) Hard Apple Cider in the New York Hudson Valley Region: A Tourism Study. Association of American Geographers annual meeting Paper Presentation, New Orleans, LA April 9-14.

Smith, M. (2017) Assessment of Hard Apple Cider Tourism Potential in the Hudson Valley Region. Middle States Association of American Geographers annual meeting Paper Presentation, Geneseo, NY, October 20-21.

Smith, M.N., & Murray, D. (2017) Artisanal Cider and the Craft Beverage Consumer Tourist Experience. Montclair State University Student Symposium Paper Presentation, Montclair, NJ April 28.

TECHNICAL PRESENTATIONS

Smith, M. (2022) CESAC Research & Partnership with the New Jersey Fuel Cell Task Force. Panel Session: Hydrogen and Fuel Cell Technology Development: Pathway to meet Clean Energy Goals. 4th Annual Clean and Sustainable Energy Summit, Invited Speaker, Montclair, NJ, November 2022.

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Nguyen, H.T.G., Lal, P., Smith, M., Sullivan, W., Tran, L.D. Ranjan, A. (2022) Farmers' Perceptions of Flooding Ecosystem Services in Vietnam's Mekong Delta. 4th Annual Clean and Sustainable Energy Summit Poster Presentation, Montclair, NJ, November 2022.

Luong, T., Smith, M., Lal, P. (2022) Willingness to pay for more sustainable tourism destinations in Vietnam: The cases of Phu Quoc island, Nha Trang, and Da Nang cities. 4th Annual Clean and Sustainable Energy Summit Poster Presentation, Montclair, NJ, November 2022.

Smith, M. (2021) Valuation of sustainable attributes of hard apple cider: A best-worst choice approach. 3rd Annual Clean and Sustainable Energy Summit Poster Presentation, Montclair, NJ, October 2021.

Smith, M. (2021) Life cycle analysis (LCA) of ground source heat pumps: A comparative analysis of energy efficiency in New Jersey. 3rd Annual Clean and Sustainable Energy Summit Poster Presentation, Montclair, NJ, October 2021.

Smith, M. (2021) Environmental and Economic Assessment of Hard Apple Cider: an integrated LCA-LCC approach. 3rd Annual Clean and Sustainable Energy Summit Poster Presentation, Montclair, NJ, October 2021.

Smith, M. (2021) Stakeholders' Perception of Geographical Criteria for Loblolly Pine Management for Bioenergy in Virginia. 3rd Annual Clean and Sustainable Energy Summit Poster Presentation, Montclair, NJ, October 2021.

Smith, M., Lal, P., Oluoch, S., Vedwan, N., Smith, A. (2020) Hard Apple Cider Consumer Valuation of Sustainable Attributes: a case study of the US Mid-Atlantic States. Middle States Association of American Geographers annual meeting Paper Presentation, online, October 16-17.

Shoab, N., Lal, P., Smith, M. (2020) LCA of offshore floating turbines in New Jersey. Middle States Association of American Geographers annual meeting Paper Presentation, online, October 16-17.

Kenny, M., Nguyen, G., Smith, M. (2020) Realizing the Energy Master Plan Through Spatial Analysis. Middle States Association of American Geographers annual meeting Poster Presentation, online, October 16-17.

Smith, M. (2020) Life Cycle Assessment (LCA) of Apple Orchard Management: an insight into sustainable agriculture and new opportunities. International Conference for Sustainable Development Paper Presentation, Online, September 21-22.

Smith, M., Nguyen, G., Wiczerak, T., Wolde, B., Lal, P., Munsell, J. (2019) Stakeholders' Perceptions of Geographical Criteria for Loblolly Pine Management in Virginia. American Geophysical Union annual meeting Poster Presentation, San Francisco, CA, December 9.

Nguyen, G., Lal, P., Lyttek, E., Smith, M., Wiczerak, T. (2019) Assessing Bioenergy Potential Based on Loblolly Pine Residues Using GIS-based Models in Virginia. Society of American Foresters National Convention Paper Presentation, Louisville, KY, October 30.

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Nguyen, G., Lal, P., Lyttek, E., Smith, M., Wiczerak, T. (2019) GIS-based methodology of site selection for Loblolly pine cultivation in Virginia. International Conference for Sustainable Development Poster Presentation, New York, NY, September 24-25.

Smith, M. (2019) Environmental and Economic Assessment of Hard Apple Cider in the Northeastern U.S. Association of American Geographers annual meeting Paper Presentation, Washington, D.C., April 3-7.

Nguyen, G., Lal, P., Lyttek, E., Smith, M., Wiczerak, T. (2019) Assessing Bioenergy Potential Based on Loblolly Pine Residues Using GIS-based Models in Virginia. Sigma Xi Student Research Symposium Poster Presentation, Montclair, NJ, April 27.

Stern, E.A., Lal, P., Smith, M., Singh, J. (2019) Sustainability Regulatory Integration and Reform for Superfund Sediment Remediation Projects. Battelle Sediments Conference Poster Presentation, New Orleans, LA, February 13.

Smith, M. (2018) Assessing the Characteristics of Tourists visiting Hard Apple Cideries in the Hudson Valley Region. Middle States Association of American Geographers annual meeting Paper Presentation, Montclair, NJ, October 26-27.

Smith, M., Lal, P., Stern, E.A., Singh, J., Wiczerak, T. (2018) Sustainability Regulation Integration and Reform for Superfund Sediment Remediation Projects: an Eco-Industrial Approach. Middle States Association of American Geographers annual meeting Poster Presentation, Montclair, NJ, October 26-27.

Smith, M., Lal, P. (2018) Exploring Consumer's Perceptions of Sustainably-Produced Wine and Beer: a systematic review. Montclair State University Student Symposium Paper Presentation, Montclair, NJ, April 27.

Smith, M. (2018) Hard Apple Cider in the New York Hudson Valley Region: A Tourism Study. Association of American Geographers annual meeting Paper Presentation, New Orleans, LA April 9-14.

Fowler, M., Burli, P., Lal, P., Smith, M. (2017) Life-Cycle Analysis of Switchgrass (*Panicum virgatum*) based Ethanol. Middle States Association of American Geographers annual meeting Poster Presentation, Geneseo, NY, October 20-21.

Smith, M. (2017) Assessment of Hard Apple Cider Tourism Potential in the Hudson Valley Region. Middle States Association of American Geographers annual meeting Paper Presentation, Geneseo, NY, October 20-21.

GRANT-SUPPORTED PROJECTS

New Jersey Fuel Cell Task Force Report (Jan. 2022 – Sept. 2022)

In collaboration with the New Jersey fuel cell task force, prepared technical report for the New Jersey's Governor's office and the United States Department of Energy.

Economic Assessment of New Jersey Re-joining Regional Greenhouse Gas Initiative (RGGI) (March 2021)

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Technical report for New Jersey Board of Public Utilities

Achieving Green Growth Through Terrestrial Natural Capital Restoration in Rwanda (2020)
Technical report prepared for the Green Growth Knowledge Platform and GIZ's The Economics of Land Degradation Initiative.

Exploring Place-Based Opportunities for Bioenergy Sustainability. National Science Foundation CAREER Award number 1555123.

Assessing socioeconomic impacts of forest biomass based biofuel development on rural communities in the Southern United States (U.S.) U.S. Department of Agriculture, National Institute of Food and Agriculture Grant number 2012-67009-19742.

HONORS AND REWARDS

Montclair State University Doctoral Fellowship Award (Aug. 2017 – Jan. 2021)

Annual stipend awarded to doctoral students for acting as either research associates or teaching assistants during the academic term.

Alpha Epsilon Lambda Honor Society (Apr. 2018 – Jan. 2021)

Honor awarded to those with academic achievement in the top 20th percentile of the college of degree program, completion of 18 graduate credits in program, and have demonstrated leadership through on and off-campus activities.

College of Science and Mathematics Travel Award (2017, 2018, 2019)

Annual grant of \$250 awarded for academic travel for attending and presenting at national conferences and meetings.

Department of Environmental Studies Dean's Travel Award (2017, 2018, 2019)

Annual grant of \$250 awarded for academic travel for attending and presenting at national conferences and meetings.

PSEG Institute for Sustainable Studies, Innovations in Food Sustainability Competition Award (Apr. 2018)

Demonstrated a vision of incorporating food security on campus in a sustainable way through a low-waste, low-cost, high-access program.

Middle States Division, American Association of Geographers Best Graduate Student Paper Award (Oct. 2017)
Award granted based on submission, and subsequent publication in Middle States Geographer, of "Assessment of Hard Apple Cider Tourism Potential in the Hudson Valley Region".

PROFESSIONAL CERTIFICATIONS

ManageFirst Professional earned credential Instructor and Proctor

ServSafe Food Manager Instructor and Proctor

ServSafe Alcohol Instructor and Proctor

Certificate of Culinary Arts (2010) Le Cordon Bleu, Scottsdale, Arizona

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COMPUTER SKILLS

Teaching Platforms: Blackboard, Canvas, Wiley PLUS, Pearson Mastering and MyLab

Administrative Platforms: Ellucian Colleague, WorkDay, Microsoft Office

Statistical Software: JMP Pro, SPSS, STATA

Analytical Platforms: SimaPro life cycle assessment software, Qualtrics survey platform, ArcGIS Survey 123

Marketing Platforms: Wix website design, Prezi presentation design