

Michelle P. Katoski

Physical Scientist | U.S. Geological Survey

Annapolis, Maryland

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PROFESSIONAL SUMMARY

Physical Scientist with the U.S. Geological Survey supporting science and geospatial modeling with the Land Data Team at the Chesapeake Bay Program Office.

Recent involvement with the Forestry Workgroup includes serving as a steering committee member for the Healthy Forests STAC workshop, presenting on the Chesapeake Bay Programs High-Resolution land use/land cover data at the Chesapeake Bay Program Webinar titled *Communicating Forest and Tree Canopy Trends Using High-Resolution Data*, and providing data updates for the State of the Chesapeake Forests and Chesapeake Bay Tree Canopy and Riparian Forest Buffer indicators.

EDUCATION

University of Maryland, Baltimore County *M.S. Geography and Environmental Systems, 2026*

Thesis: “*Characterizing Urban Forest Structure Using Lidar-Derived Canopy Metrics in Baltimore, Maryland*”

Committee Chair: Matthew Baker

University of Maryland, Baltimore County *B.S. Environmental Science, GIS Certificate, 2017*

PROFESSIONAL EXPERIENCE

U.S. Geological Survey - Physical Scientist

Lower Mississippi-Gulf Water Science Center, Chesapeake Bay Program Office

Annapolis, Maryland | **October 2023 - Present**

U.S. Geological Survey - Physical Scientist

Maryland-Delaware-D.C. Water Science Center

Baltimore, Maryland | **2019 - 2023**

SELECTED PUBLICATIONS

Brownson, K., C. Highfield, M. Baker, A. Freitag, C. Hayes, S. Johnson, **M. Katoski**, A. Muth, and M. Noe Fellows. [In Review]. Healthy Forests: Proactive Strategies for Managing Threats and Promoting Conservation in the Chesapeake Bay Watershed. STAC Publication Number 26-00X, Edgewater, MD. 68 pp.

Sonti, N. F., Baker, M. E., Allman, M., Hallett, R. A., **Katoski, M. P.**, Lautar, K., ... & Pregitzer, C. C. (2025). Whose woods are these? Forest patch characteristics and ownership across cities of the eastern United States. *Landscape and Urban Planning*, 260, 105374.

Mockrin, M. H., Baker, M. E., **Katoski, M.**, Sonti, N. F., & Holland, M. B. (2025). Legacies of urbanization and suburbanization on forest patch distribution, ownership, and use: Insights from Baltimore, Maryland. *Urban Forestry & Urban Greening*, 107, 128778.

McDonald, S.M., Thompson, R.L., **Katoski, M.P.**, Claggett, P.R., Ahmed, L., Fitch, A., and Wolf, J., 2024, Chesapeake Bay Watershed 1:24k 10, 30 and 90-meter Riparian Buffer Zones: U.S. Geological Survey data release, <https://doi.org/10.5066/P99HZHQ0>.

Sonti, N. F., Baker, M. E., Lagrosa IV, J. J., Allman, M., Grove, J. M., & **Katoski, M. P.** (2024). Shaping Baltimore's urban forests: past insights for present-day ecology. *Landscape Ecology*, 39(8), 136.