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Gurski's research focuses on mathematical modeling and analysis with applications to physical and biological problems, including fluid dynamics, infectious disease modeling and computational methods. Her work has appeared in peer-reviewed journals in mathematical biology, numerical analysis and computational science, and she has organized and contributed to national and international workshops, conferences and seminars. She has also received research support from the National Science Foundation, the Simons Foundation and Howard University's Office of the Provost.

At Howard University, Gurski teaches courses in applied mathematics, differential equations and mathematical modeling, mentoring undergraduate and graduate students in research and independent study. She has been active in professional service, including editorial work and organizing conference sessions, and has contributed to curricular and faculty committees within the Department of Mathematics. Her career reflects a commitment to interdisciplinary collaboration, mathematical inquiry and the development of students in STEM disciplines.