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(Source: [The Advocate](#))

LSU postdoc fellow receives award

Michael J. Neilan, postdoctoral research fellow at the LSU Center for Computation & Technology, has received an award from the National Science Foundation to focus on fully nonlinear second-order partial differential equations. The award is for a three-year period. PDEs play a crucial role in understanding and predicting various real-world problems including modeling weather phenomena, determining the initial shape of the universe, optimal reflector design, differential geometry, optimal transport, mathematical finance, image processing and mesh generation. PDEs cannot be solved by simple mathematical formulas, and the need for accurate and efficient computational methods is necessary.

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