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Ph.D., Mechanical Engineering, Purdue
University (2016)**Research Summary:**

Research at Argonne is focused on the study of phonon dynamics during hot electron relaxation processes. Other research interests include micro/nano scale energy transfer processes and thermal transport across heterogeneous material interfaces.

Selected Recent Publications:

1. Sridhar Sadasivam, Stephen L. Hodson, Matthew R. Maschmann, Timothy S. Fisher, Combined Microstructure and Heat Transfer Modeling of Carbon Nanotube Thermal Interface Materials, *Journal of Heat Transfer*, vol. 138, p. 042402, 2016
2. Sridhar Sadasivam, Umesh V. Waghmare, Timothy S. Fisher, Electron-phonon coupling and thermal conductance at a metal-semiconductor interface: First-principles analysis, *Journal of Applied Physics*, vol. 117, p. 134502, 2015
3. Sridhar Sadasivam, Yuhang Che, Zhen Huang, Liang Chen, Satish Kumar, Timothy S. Fisher, The atomistic Green's function method for interfacial phonon transport, *Annual Review of Heat Transfer*, vol. 17, pp. 89-145, 2014
4. Ishan Srivastava, Sridhar Sadasivam, Kyle C. Smithy, Timothy S. Fisher, Combined Microstructure and Heat Conduction Modeling of Heterogeneous Interfaces and Materials, *Journal of Heat Transfer*, vol. 135, p. 061603, 2013
5. Arunn Narasimhan, Sridhar Sadasivam, Non-Fourier bio heat transfer modeling of thermal damage during retinal laser irradiation, *International Journal of Heat and Mass Transfer*, vol. 60, pp. 591-597, 2013