



The Department of Mathematics at Southern Methodist University invites students interested in pursuing a PhD in Computational and Applied Mathematics to apply to our graduate program. Our research profile consists of a diverse interdisciplinary topics in modeling and computations, including machine learning for scientific computing, data sciences, uncertainty quantifications, biological neural networks and biophysics, eigenvalue and electronic structure calculations, optics and nano-photonics, computational electromagnetics, fluid and plasma dynamics, wave propagations, fluid-structure interactions, etc. Students in our program can benefit from ample research seminars and active funded research projects by our faculty members <https://www.smu.edu/Dedman/academics/departments/math> .

In addition to regular graduate teaching assistantships, our program offers a variety of fellowships to qualified students. For US citizen and permanent residents, an exceptional opportunity is provided by our recent new Research Training Group, "RTG: Modeling and Computations for Complex Systems at Southern Methodist University", funded by the National Science Foundation https://www.nsf.gov/awardsearch/showAward?AWD_ID=1840260. This program will provide RTG fellowship to Ph.D. students conducting research in the program three focused areas: *Computation-enabled investigations into circuits and cognition; Nonlinear dynamics and the modeling of large systems; and Modeling complex transport processes in nanoscale manufacturing*. Please indicate your intent for this program in the application.

We are particularly interested in receiving applications from women and underrepresented minorities. Applicants should write a short statement indicating in particular their research experience and, for RTG fellowship applicants, preferably with a choice amongst its three focused areas. Students living in the US, who are offered admission with funding, will be invited to a 2-day visit to SMU on March 6-7, 2020.

Interested applicants should contact the program Director, Prof. Johannes Tausch at tausch@smu.edu, and look at : <https://www.smu.edu/graduate> to submit your applications.