

### □ Graduate program

The graduate program offers Master's and doctoral degrees covering the areas of applied analysis, computational mathematics, mathematical dynamics, probability and statistics, and machine learning theory. A special strength of the division is the interaction among its various mathematical science groups in research and education. The division also has close working relations with faculty in Computer Science, Engineering, and Biomedical Sciences.

The program imposes two courses, Methods of Applied Mathematics and Applied Real Analysis as required major courses. The courses cover the topics which are essential to most of the areas of applied mathematics. At the end of the first semester, the graduate students select their interested fields and each of them becomes a member of a laboratory under the supervision of a faculty member.

In a reflection of its interdisciplinary nature, the Division participates in the telecommunication engineering program and teaches electrical engineering majors and computer science majors, as well as applied mathematics majors. The Division has seven research laboratories in three major fields - applied analysis, scientific computing and mathematical mechanics, and applied probability and statistics. All graduate students are supported by KAIST. Furthermore, due to the successful activities of the faculty and graduate students, all graduate students are also supported by fellowships and/or grants from government and research institutes in addition to government-funded scholarships.

Many of our graduates go on to take leading roles in schools, research institutes, and industries. They contribute nationally and internationally. More graduates are needed in our changing society and the demand is increasing rapidly nowadays.

### □ Undergraduate program

The undergraduate program provides many fundamental courses, for example, Introduction to Applied Mathematics, Analysis 1 & 2, Probability & Statistics and their Applications, which are required for most undergraduate engineering majors as well as undergraduate applied mathematics majors.

The program provides 5 courses as required major courses in the division which are instrumental for applying mathematical theories and methodologies to a wide range of research fields and industry, including the biological sciences, the information sciences, knowledge industries, finance, the social sciences, manufacturing industries, etc. The faculty kindly helps undergraduate students to take the courses that are suitable to their interests and scholarly intentions.

The division is well known among students for its friendly reputation. Faculty members are easily accessible and ready to talk with and consult the students regarding both scholarly and personal matters. We provide some undergraduate students with the opportunity to attend international workshops or conferences where they can learn about the contributions and leading roles of Applied Mathematics in the real world. The division has a room with 42 PC's which are loaded with up-to-date software for mathematical computing and statistical analysis.

A majority of graduates from our undergraduate program find their way to graduate programs in KAIST or overseas, while others find jobs in industry, particularly in financial companies.