



University of California, Santa Barbara
Program Learning Outcomes

PhD in Statistics and Applied Probability

Upon graduation with a PhD in Statistics and Applied Probability:

Core Knowledge

- Students will be able to demonstrate a broad knowledge of areas cutting across the field of Statistics and Applied Probability. This will include knowledge in at least two out of three of the core sub-disciplines, namely at least two of the sub-disciplines of Mathematical Statistics, Applied Statistics, and Applied Probability.
- Students will be able to demonstrate expertise in one or more areas of Statistics and Applied Probability specialization.
- Students who successfully apply to add one of the approved optional Ph.D. emphases will be able to demonstrate expertise in probability and/or statistical methods relevant for that area of emphasis.

Scholarly Communication

- Students will be able to create effective written technical arguments that contribute to the understanding of the field by their peers.
- Students will be able to review and cogently synthesize relevant literature, with proper use of citations and references.

Independent Research

- Students will produce scholarship that is comparable in scope and format to articles, books, and conference papers that appear either in leading peer reviewed venues and presses in the field of Statistics and Applied Probability, or in interdisciplinary venues and presses that publish research related to their area of Statistics and Applied Probability specialization.