

Service statement

Li Li

Service to the University

My principle service to the University is to students. I deem it one of the most important calls of a faculty member. The following list details the services I have performed for students:

- I have served as academic advisor to designated undergraduate and graduate students for ten consecutive semesters. Topics of advisement included: information on current classes, their plans for the upcoming semester, deadlines they need to meet, and program requirements. In addition to giving academic advice, I help them engage in the department and college community. I encourage students to attend our annual ASA chapter meeting, attend department talks, seek advice from other faculty members. I also encourage them to seek collaborations with UNM Health Science Center, UNM Comprehensive Cancer Center, Sandia National Lab, and Los Alamos National Lab.
- I have advised two students for their master thesis. One student who passed with distinction wrote on the effects that different teaching methods have on student attitude and achievement in Calculus recitations and on related strategies for TA training. The other student explored and compared statistical variable selection methods using simulated data that were Bootstrap samples from real environmental application data. The goal was to seek appropriate methods for analyzing the toxic effects of an extensive profile of heavy metals on children's neurodevelopment.
- I am currently advising two master students in thesis research, and a PhD student in dissertation research. One master student works as an intern in Sandia National Lab, and the other master student holds a part-time position in UNM Health Science Center. Both thesis topics are related to research in The lab and health science center, respectively. The PhD student works as a research assistant in UNM Comprehensive Cancer Center. His dissertation topic is to develop methods for studying the mechanisms of how multiple genes interact and for quantifying their causal effects on health outcomes.

- I served as a member of master thesis and PhD dissertation committee for five students in the last five years.
- I participated in writing and grading qualifier exams, discussing comprehensive exam results every semester in the past five years. The qualifier exam is an important and necessary step for most students to continue in their academic pursuit. Faculty plays an essential role in providing high levels of statistical training as well as providing clear guidelines. I will continue in my efforts to teach well, write quality exam problems, and grade fairly.
- I have written several academic recommendation letters for students based on their performances in the classes I taught.
- I served as an evaluator for oral presentations during the 2018 UNM McNair Scholars Research Conference.

In addition, I serve medical practitioners from UNM Comprehensive cancer center through my collaborative work with biostatisticians and medical scientists. Currently, I am involved in research on how toxic metals affect the health of children and mothers from Navajo tribes in New Mexico and Arizona. This aims to identify the most critical components of the pollutant mixture, examining potential interaction effects, and quantifying the health effects of environmental chemicals.

Service on department committees and to the Statistics group

- For eight consecutive semesters, I participated in writing and grading the graduate qualifying exam, and in discussing comprehensive exam results.
- I served on the hiring committee for a statistics lecturer in summer 2019. Activities included reviewing candidates' portfolios, interviewing candidates, and discussing results with other committee members.
- During academic year 2017-2019, I served on the undergraduate committee. We discussed and modified undergraduate program evaluation guidelines and reviewed multiple undergraduate honors' thesis proposals.
- During academic year 2015-2016, I served on the undergraduate honors thesis committee; in which we reviewed two thesis proposals and awarded those two students with thesis honors.
- For academic years 2016-2018, I served on the colloquium committee. I coordinated visits of five guest speakers based on the departmental colloquium budget; arranging accommodations, setting up schedules for speakers, and organizing seminars.

- For the current academic year 2019-2020, I serve on the colloquium committee, undergraduate committee, and the hiring committee for a statistics Assistant Professor.

Service to the profession

In the professional statistics community, I serve mainly by reviewing manuscripts and attend statistical meetings.

- I have reviewed manuscripts for several statistical journals, including Biometrics, Statistical Modelling, Bayesian Analysis, The American Statistician, Journal of Applied Statistics, Operations Research Perspectives, and Technometrics. As a referee, I strive to give sound and fair suggestions to the authors and adhere to the rules of each journal.
- I attend professional meetings, including the Joint Statistical Meetings (JSM), ASA chapter meetings, and Eastern North American Region (ENAR) of the International Biometric Society meetings. Both JSM and ENAR are among the largest statistical conferences around the globe. I plan to attend the upcoming ENAR meeting in 2020 and continue to seek opportunities to disseminate my work as well as keep abreast of the latest research.
- I am a member of ASA sections on Statistics and Data Science, Statistical Consulting, Biometrics, and Statistical Learning and Data Science. I participate in section discussions and will continue to do so.
- In the coming years, I plan to become an ASA New Mexico chapter officer. Chapter officers typically organize our annual chapter meeting, promote collaborations in the community, and promote statistical education in the state.