• **Instructor:** Dr. Huiyan Sang
  - Email: huiyan@stat.tamu.edu
  - Phone: (979) 845-3156
  - Office: BLOC 416C
  - Office hours: TBA

• **Prerequisites:** STAT 601 or 611 or equivalent

• **Statistical Software:** we will use R (http://www.r-project.org) to do statistical analysis.

• **Course Webpage:** [http://dl.stat.tamu.edu/dostat/](http://dl.stat.tamu.edu/dostat/)
  Go to the above URL to register for DoStat. After logging in, click on “Course” and then “Add course”. Enter the course reference number “DS-590” and the registration code “chance”. Check this webpage regularly for important announcements and lecture notes.

• **Course Content:** Spatial random processes (Variograms, Covariance functions, Inference, Kriging), Discrete spatial variation (Markov random fields, conditional and intrinsic autoregression models), Hierarchical modelling of spatial data, Point processes, Spatial-temporal processes, Multivariate spatial process models, Non-Gaussian spatial models, Computational methods for large spatial datasets.

• **Textbook:** Handbook of Spatial Statistics, by Alan E. Gelfand, Peter Diggle, Peter Guttorp, Montse Fuentes; Chapman & Hall/CRC Press

• **Grade:** Your final grade will be calculated as the following: Homework assignments (30%), team project (70%)

• **Grades distribution:**
  - 90-100 A
  - 80-89 B
  - 70-79 C
  - 60-69 D
  - Below 60 F

• **Late Homework Policy:** No late homework will be accepted.

• **Make-up Policy:** If you miss homework, reports (and final presentation date) due to non university excused reasons, you will get 0 point. For absences approved by university, please refer to Rule 7 at [http://student-rules.tamu.edu/](http://student-rules.tamu.edu/) (note that there are some recent changes to Rule 7). The Course Instructor must be notified of the absence as soon as possible.

• **STATEMENT ON DISABILITIES:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Disabilities Services in Room B118 in Cain Hall. Their phone number is 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).
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• STATEMENT ON PLAGIARISM: As commonly defined, plagiarism consists of passing off as one’s own ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section "Scholastic Dishonesty.”

• Academic Integrity Statement: “An Aggie does not lie, cheat, or steal or tolerate those who do.”

The Aggie Honor Council Rules and Procedures are available at the web site: