

FALL 2017 - STAT 890 G100

**STATISTICS: SELECTED TOPICS (4)**  
**Spatial Statistics***Class Number: 7797    Delivery Method: In Person***COURSE TIMES + LOCATION:**

Tu 2:00 PM – 3:50 PM

WMC 2522, Burnaby

Th 2:00 PM – 3:50 PM

WMC 2522, Burnaby

**INSTRUCTOR:****Liangliang Wang**

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Office: SC-K10550

## Description

**COURSE DETAILS:****Course Title:** Spatial and Spatio-Temporal Statistics**Pre-requisites:** Knowledge of regression and some understanding of likelihood at MSc level. Familiarity with R (most likely you will need to have R on your laptop).

This course will be offered using remote teaching technology.

**Instructors:****Peter Guttorp** (guttorp at uw dot edu)**Paul D. Sampson** (pds at stat dot washington dot edu)**Course Outline:**Detailed outline can be found here <http://www.stat.washington.edu/peter/591/>

Course runs from Sept 28th to Nov 30th (no class Nov 23rd)

## Grading

Assignments

100%

**NOTES:****Grading scheme above is subject to change.**

## Materials

**RECOMMENDED READING:**

Sudipto Banerjee, Bradley P. Carlin and Alan E. Gelfand (2014): *Hierarchical Modeling and Analysis for Spatial Data*, Second Edition. Chapman & Hall/CRC Press.

Noel Cressie and Christopher K. Wikle (2011): *Statistics for Spatio-Temporal Data*. Wiley.

Peter J. Diggle and Paulo Justiniano Ribeiro (2010): *Model-based Geostatistics*. Springer.

Alan E. Gelfand, Peter J. Diggle, Montserrat Fuentes and Peter Guttorp, eds. (2010): *Handbook of Spatial Statistics*. Section 2, Continuous Spatial Variation. Chapman & Hall/CRC Press.

Nhu D.Le, and James V. Zidek (2006): *Statistical Analysis of Environmental Space-Time Processes*. Springer

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**GRADUATE STUDIES NOTES:**

Important dates and deadlines for graduate students are found here: [http://www.sfu.ca/dean-gradstudies/current/important\\_dates/guidelines.html](http://www.sfu.ca/dean-gradstudies/current/important_dates/guidelines.html). The deadline to drop a course with a 100% refund is the end of week 2. The deadline to drop with no notation on your transcript is the end of week 3.

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SFU's Academic Integrity web site <http://students.sfu.ca/academicintegrity.html> is filled with information on what is meant by academic dishonesty, where you can find resources to help with your studies and the consequences of cheating. Check out the site for more information and videos that help explain the issues in plain English.

Each student is responsible for his or her conduct as it affects the University community. Academic dishonesty, in whatever form, is ultimately destructive of the values of the University. Furthermore, it is unfair and discouraging to the majority of students who pursue their studies honestly. Scholarly integrity is required of all members of the University. <http://www.sfu.ca/policies/gazette/student/s10-01.html>

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