

	MASTER'S PROJECT	
This form is to be completed, signed, and submitted to the Graduate ADrop Box located on the wall next to the E2-595 suite entrance. Advising Office via e-mail for enrollment. You must enroll through M YSampson Mao	Class numbers are issued by the Graduate	
<u> </u>		
Last Name First Name MI samao@ucsc.edu	Student ID Winter	
Email Statistics	Quarter 2021	
Statistics	2021	
Department	Year	
PROPOSED PROJECT & DE	ADLINES	
Modeling Counts with Correla 1. Title and description of proposed project:		
We currently have methods for dependent Gaussian processes. However, when a random vector consists of correlated		
non-Gaussian random variables, many methods available for the Gaussian case do not work well. This project explores		
ways to model spatial data in which its marginal distribution is not a Ga	. ,	
make use of Gaussian copulas to obtain marginal count distributions.		
R code, plots, and report 2. Description of work to be submitted:		
This project will be done using climate data, such as Kansas tornado counts. Various distributions, covariance matrices,		
and parameters will be tested. Plots will then be generated and summarized in a final report.		
3. A draft of the project report is due on:		
4. Final Project Report is due to committee members on: The signed project report must be submitted to the Graduate Advising Office as part of the degree completion requirements by the degree deadline listed on the Academic Calendar: http://registrar.ucsc.edu/calendar/academiccalendar.html		
5. Number of units: 2 units (296) X 5 units (299 - CSE ON	NLY)	
MS READING COMMIT	TEE	
"I agree to serve on this student's Mast	er's Project Committee"	
MS Project CHAIR MS Pr	roject Reader	
Robert Lund TIM Herbe	ert Lee STAT	
Faculty Mame & Department Fapuli	tydlame & Department	
Robert Lund Se	Not Lee	
Signature Signa	2E770D60454 ture	
FOR GRADUATE ADVISING OFFI	ICE USE ONLY	

Class Number:	40913	Staff Initials:
Course Number:	STAT 296	DS NO!
Section Number:	09	I KL