

Celeste Yang  
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Education:

**Ph.D Biostatistics**    *August 2007 – present*  
University of Alabama Birmingham (UAB), Birmingham, AL  
**M.S. Statistics**        *December 2008*  
Kansas State University (KSU), Manhattan, KS  
**B.S. Mathematics**    *August 2005*  
Kansas State University (KSU), Manhattan, KS

Work Experience:

*August 2007 – present*  
**Graduate Research Assistant**  
UAB, Department of Biostatistics, Birmingham AL

- Duties have included, power analysis for survival data, survival data analysis, and ANOVA data analysis for the Cancer Research Center at UAB.

*August 2008 – December 2008*

**Research Aide**  
The Kanost Lab, KSU, Department of Biochemistry, Manhattan KS

- Duties included updating the labs website using the web design software Dreamweaver, protein modeling using the modeling software PYMOL, ANOVA and MANOVA for RTPCR data using the statistical software SAS, and analyzing kinetics data using the statistical software PRISM.

*August 2006-August 2007*

**Graduate Research Assistant**

Fort Riley Range and Training Lands Assessment Environmental Project, Department of Biology, KSU, Manhattan, KS

- Objective of this project is to monitor the military training areas in Fort Riley, Kansas and determine when particular areas need to be restored.
- My task was to determine whether we could estimate with 95% confidence bare ground cover from blimp images. I produced a protocol, design (two period crossover type design), and model to answer this question.

*August 2005 – August 2006*

**Graduate Teaching Assistant**

Department of Statistics, KSU, Manhattan, KS

- Taught introductory statistics (STAT 320/330) in a studio classroom to an average of 40 students per semester. Students were from a wide range of backgrounds and mathematical experience levels.

*August 2003 – August 2005*

**Undergraduate Student Lab Assistant**

The Kanost Lab, Department of Biochemistry, KSU, Manhattan, KS

- Various responsibilities associated with caring for and maintaining an insect colony.
- Used PCR, RT-PCR, gel electrophoresis, western blot, recombinant DNA techniques (such as. cloning, transformation, ligation, restriction enzyme digestion, etc.), and ion exchange chromatography for various experiments.

*December 2002 - August 2005*

**Prep-lab assistant**

Department of Biochemistry., KSU, Manhattan, KS

- Handled multiple responsibilities including preparing reagents and setting up equipment for various biochemistry lab classes.

**Statistical Software Experience:**

- 4+ years: SAS (SAS/IML SAS/STAT SAS Macros), Minitab, SPSS
- 1+ years: R

### Statistical Analysis done for various research projects:

- ANOVA, MANOVA, ANCOVA
- Principal component analysis (PCA), factor analysis, cluster analysis
- Survival data analysis (Cox Proportional Hazard models, Kaplan-Meier estimation, power analysis)
- Longitudinal data analysis (repeated measures over time, modeling covariance structures)
- Multiple testing issues, controlling for false discovery rate as well as family wise error rate
- Categorical Data analysis (logistic regression)
- Bootstrapping and Simulation

### References

for past work, statistical consulting, and academic, are available upon request