

# BO NING

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## EDUCATION

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Ph.D. candidate, Statistics, North Carolina State University *May, 2018 (expected)*  
*Advisors: Dr. Peter Bloomfield and Dr. Subhashis Ghoshal*

M.S., Economics, North Carolina State University *December, 2013*  
*Advisor: Dr. Atsushi Inoue*

## RESEARCH INTERESTS

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Bayesian dynamic time series models; Bayesian high-dimensional problems; nonparametric; Astrostatistics; causal inference.

## PAPERS SUBMITTED/IN PREPARATION

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- [4] Bo Ning, Subhashis Ghoshal, 2017. Bayesian multivariate linear regression with correlated errors under group sparsity. In preparation.
- [3] Bo Ning, Sujit Ghosh and Angie Wolfgang, 2017. Predicting exoplanet masses and radii: a nonparametric approach. In preparation.
- [2] Bo Ning, Subhashis Ghoshal and Jewell Thomas, 2017. Bayesian method for causal inference in spatially-correlated multivariate time series. Under revision.
- [1] Bo Ning and Peter Bloomfield, 2017. Bayesian inference for generalized extreme value distribution with Gaussian copula dependence. Working paper, *Arxiv:1703.00968*.

## PRESENTATIONS AND WORKSHOPS

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### **Predicting exoplanet masses and radii: A nonparametric approach.**

- (*Invited talks*) 3rd workshop on extreme precise radius velocities (EPRV), Penn State University, August 14–17, 2017
- (*Invited talks*) ASTRO transition workshop, SAMSI, NC, May 8–10, 2017.
- (*Poster*) Joint Statistical Meeting, Baltimore, August, 2017

### **Bayesian method for causal inference in spatially-correlated multivariate time series.**

- (*Invited talks*) Maxpoint research day, Maxpoint Interactive Inc., Morrisville, NC, March, 2016
- (*Poster*) Joint Statistical Meeting, Chicago, August, 2016
- (*Presentation*) ICSA Applied Statistics Symposium, Jun 12–15, Atlanta, 2016
- (*Poster*) Graduate Student Research Symposium, the Graduate School, NCSU, March, 2016

### **Bayesian inference for generalized extreme value distribution with Gaussian copula dependence.**

- (*Presentation*) International conference on advances in interdisciplinary statistics and combinatorics, Greensboro, NC, Sep 30–Oct 2, 2016

## Workshops

- ASTRO: Astrophysical population emulation and uncertainty quantification, SAMSI, NC, April 3–7, 2017
- ASTRO: Hierarchical Bayesian modeling of exoplanet populations (by invitation only), SAMSI, NC, Oct 17–28, 2016
- Workshop on “Statistical, Mathematical and Computational Methods for Astronomy (ASTRO)”, SAMSI, NC, Aug 22–26, 2016

## TEACHING EXPERIENCE

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### Lab instructor

- Experimental Statistics for Biological Sciences II (*Ph.D. and master level*)  
*Fall, 2015; Spring 2016; Fall 2016; Fall 2017*

### Online course teaching assistant

- SAS Programming I (*Master level*)  
*Fall, 2014; Spring, 2015*

### Grader

- SAS Programming I (*Master level*)  
*Summer, 2014*
- Statistical Practice (Consulting) (*Ph.D. and Master level*)  
*Spring, 2016; Spring, 2017*

## HONORS, AWARDS AND MEMBERSHIPS

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- Certificate of Accomplishment in Teaching (CoAT), the Graduate School, NCSU, 2016
- Outstanding Teaching Assistant Award, the Department of Statistics, NCSU, 2015
- Outstanding Teaching Assistant Award for Excellence in Mentorship, Graduate Student Association, NCSU, 2015
- Graduate Student Summer Teaching Institute, the Graduate School, NCSU, June 9–11, 2014
- Member of ASA, ISBA, ICSA
- Member of Mu Sigma Rho, National Statistical Honor Society, 2014

## INTERNSHIP EXPERIENCE

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- Data Scientist Intern, MaxPoint Interactive Inc. Morrisville, NC. *Summer, 2016*
- Product Analytics Summer Intern, MaxPoint Interactive Inc. Morrisville, NC. *Summer, 2015*

## PROGRAMMING SKILLS

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- Proficient: R, SAS, MATLAB,  $\text{\LaTeX}$
- Mid-level: Python
- Familiar: Julia (IJulia)

## LANGUAGE

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- Native/fluently: Chinese (Cantonese, Gan, Mandarin), English
- Intermediate: Japanese
- Limited: French, Hakka, Taiwanese, Thai, Spanish