

XI GUO

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Visa status: Legal authorized to work in the US

TECHINICAL SKILLS

- **Languages and software:** 3+ years of experience in R, Python, and Java (Oracle SE7 Certified); experienced in Matlab and ArcGIS
- **Analysis:** Time series analysis, Machine learning, Data visualization, Bioinformatics

RESEARCH EXPERIENCE

- **Avian Flu Research Team** University of Minnesota
Project Lead - Correlation Analysis, Time Series Analysis, Survey Methods Feb 2013 - Present
 - Designed and coordinated epidemiological surveys to investigate avian flu risks in 32 farms over 3 years
 - Launched a mobile survey app used to capture first-hand information in food industry to reduce 310 million economic loss
 - Performed correlation and singular spectrum analysis of 56 years of daily weather data
 - Developed a Shiny App for identifying association between avian flu outbreaks and local weather using R
- **Porcine Genome Research Team** University of Minnesota
Research Assistant - Bioinformatics, Hypothesis Testing Aug 2012 - Feb 2013
 - Analyzed 5 GB Illumina MiSeq data using R and python; characterized 23 genes from 108 genome samples

EDUCATION

- **University of Minnesota** Minneapolis, MN
Ph.D. in Epidemiology and Molecular Biology; expected July 2017 Aug. 2012 – present
 - Relevant coursework: Algorithms and data structure; Practice of database systems; Biostatistics; Intelligent agents
- **China Agricultural University** Beijing, China
Bachelor of Science in Veterinary Medicine Aug. 2007 – May. 2012

SELECTED AWARDS AND PUBLICATIONS

- **MNDrive Global Food Venture Fellowship, 2014:** nominees were the top 18% among innovative researchers focused on food safety at the University of Minnesota
- **Summer Institute in Statistics and Modeling Travel Award, 2014:** awarded by Department of Biostatistics, University of Washington
- Genomic variation in the porcine immunoglobulin lambda variable region. **Guo, X.**, Schwartz, J.C. and Murtaugh, M.P., 2016. Immunogenetics.

LEADERSHIP EXPERIENCE

- **President, The Minneapolis Toastmaster Club, 2016:** organized inter-club events
- **Lead of National College Innovation Program, 2009:** lead of a four students in a science innovation project; secured 20,000 RMB funding; won First Prize of The 5th Challenge Cup Competition

OTHER INTERESTS

- **Dancing:** performer of The Olympic Games Closing Ceremony, 2008; Hip Hop dance instructor for high school kids