

YUNYI SHEN

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EDUCATION

PERIOD	November 2019 — Current	
DEGREE	Master of Science in Statistics	
INSTITUTE	University of Wisconsin-Madison	Madison, USA
PERIOD	August 2018 — Current	
DEGREE	Master of Science in Wildlife Ecology	
INSTITUTE	University of Wisconsin-Madison	Madison, USA
PERIOD	August 2014 — July 2018	
DEGREE	Bachelor of Science in Integrated Science/Biophysics	
INSTITUTE	Peking University	Beijing, China

RESEARCH PROJECTS

PERIOD	January 2019 —	
ADVISOR	Tim Van Deelen, Brian Yandell	UW Madison
TITLE	Spatial Explicit Occupancy Modeling of Canidae Species in Apostle Islands, WI USA	
	Develop MRF based model account for interspecies interaction and spatial autocorrelation simultaneously.	
PERIOD	October 2018 —	
ADVISOR	Tim Van Deelen, Dwayne Etter	UW Madison
TITLE	Population Reconstruction of White Tailed Deer under Intensive Harvest	
	Developing integrated population model for white tailed deer population reconstruction, formalized as R package ReCAP.	
PERIOD	October 2017 — August 2018	
ADVISOR	Sheng Li	Peking University
TITLE	Diversity Pattern of Pheasants in China	
	Distribution modeling of 67 species of pheasants. Land use is the strongest single variable explaining richness across landscape.	

PERIOD **October 2016 — October 2017**
 ADVISOR **Sheng Li** Peking University
 TITLE **Distribution Mapping of Asiatic Black Bear**
 Distribution modeling of black bear using data from multiple sources
 with various spatial resolutions. Developing method for data fusing.

PUBLICATIONS

YEAR **2019**

- [1] **Yunyi Shen**, Mingzhang Liu, Dajun Wang and Sheng Li "Identify critical knowledge gap and conservation needs of threatened large mammal through high-resolution mapping: case of Asiatic Black Bear, China" (*in prep*)
- [2] Xiaoyun Shi, **Yunyi Shen** and Sheng Li "Mapping the current distribution of chrysolophus pheasants (*C. pictus* and *C. amherstiae*) to determine the range of potential hybridization" (*in prep*)

YEAR **2018**

- [1] Jianping Yu, **Yunyi Shen**, Xiaoyou Song, Xiaonan Chen, Sheng Li and Xiaoli Shen "Evaluating the effectiveness of the functional zones for the protection of black muntjac (*Muntiacus crinifrons*) in the Qianjiangyuan National Park" *Biodiversity*(in Chinese)

CONFERENCE PRESENTATIONS AND POSTERS

YEAR **2019**

- [1] Dwayne Etter, John Humphreys, Tim Van Deelen, Gary Roloff, **Yunyi Shen** "Managing White-tailed Deer Under a Newly Evolving Paradigm: A Demonstration of the Effects of Density-Dependence" *2019 annual TWS conference*

YEAR **2017**

- [1] **Yunyi Shen**, Dajun Wang, Sheng Li "Identify critical knowledge gap and conservation needs of Asiatic Black Bear through high-resolution mapping" *Chinese Chapter of SCB Annual Conference 2017* Best graduate student presentation award

YEAR **2016**

- [1] Jinlin Chen, Xier Chen, Haowen Liu, **Yunyi Shen**, Yichao Zeng, Lijie Yin "Biodiversity survey in Chongzuo examined effects of the white-headed langur (*Trachypithecus leucocephalus*) as a flagship species on habitat conservation" *Conservation of China's Tropical Diversity* (Poster)

R PACKAGES

TITLE **ReCAP**
 DESCRIPTION **R**econstruction of **C**ulled and **A**erial counted **P**opulations. Integrated population model used to reconstruct population dynamics using culling and aerial count data, available on GitHub (but not cran yet).

TITLE **SparseIsingSampler**
DESCRIPTION Sampling method for Ising model with sparse graph structure, available on GitHub (but not cran yet).

PROFESSIONAL POSITIONS

PERIOD **January 2019 — December 2019**
EMPLOYER **Qianjiangyuan National Park** Zhejiang China
TITLE **Statistical Specialist**
Black muntjac population and distribution modeling

PERIOD **June 2017 — July 2018**
EMPLOYER **Peking University Biology Museum** Beijing China
TITLE **Docent**
Science communication manuscript writing, automatic guiding system construction, guide visitors

OUTREACH POSITIONS

PERIOD **2016**
EMPLOYER **Bo Wu** (Chinese National Geography Magazine) Beijing China
TITLE **Editor**
Edit science communication manuscripts

GRANTS

PERIOD **November 2018 — November 2019**
AGENCY Institute of Zoology, Chinese Academy of Science
TITLE **Basic ecology of black muntjac** Statistical specialist
AMOUNT \$10,000 in total, with 3 other collaborators

AWARDS AND SCHOLARSHIPS

YEAR **2019**
AWARD Conservation Leader for Tomorrow Scholarship IL U.S.A.

YEAR **2017**
AWARD Annual Award in Social Works Peking University

YEAR **2015**
AWARD Second Award in Jiang Zehan Cup of Modeling Beijing, China

YEAR **2013**
AWARD Silver Medal in Chinese Chemistry Olympiad Beijing, China

TEACHING

SEMESTER **Fall 2019**
INSTITUTE UW Madison
COURSE **General Chemistry (CHEM 103)** TA

SEMESTER	Spring 2019	
INSTITUTE	UW Madison	
COURSE	General Chemistry (CHEM 104)	TA
SEMESTER	Spring 2018	
INSTITUTE	Peking University	
COURSE	ESL for Non-Academic Staffs	Instructor
SEMESTER	Fall 2017 & Fall 2016	
INSTITUTE	Peking University	
COURSE	Evolution of Human Intelligence	TA
SEMESTER	Spring 2016	
INSTITUTE	Peking University	
COURSE	Undergraduate Seminar in Genetics	TA
SEMESTER	Summer 2015 & Summer 2014	
INSTITUTE	Xi'an No.1 (2015)/Tieyi (2014) High School	
COURSE	Chinese Chemistry Olympiad (CChO)	Instructor