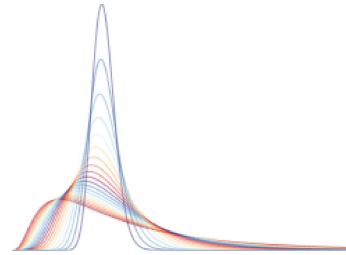# ZIYING CHU

I was dedicated to climate conservation for more than 10 years, with 5 years' experience in climate data cleaning, wrangling, statistical analysis, and data visualization using Matlab and 2 years' experience in carbon emission reduction and profitability analysis using Excel, applied mathematical and statistical techniques including clustering, EOF and regression analysis,interpolation, autoregressive integrated moving average, wavelet transform, etc., and accumulated some experiences on project management and leadership.

I have been enrolled in a M.S. program on Program Evaluation and Data Analytics in Arizona State University since 2021, it helped me refresh my statistical knowledge especially on hypothesis testing and regression analysis, introduced me new skills on R programming, SQL and Git, and systematize my fragmentary knowledge on project management and evaluation.

Currently, I am searching for a data analyst position that allows me to help people explore and understand their data. Data Science is a growing industry, I am also learning Python and Machine Learning by myself. Hope all these will contribute to my future position.

View this CV online with links at https://chmao99.github.io/CV/

CONTACT

✉ ziying.lily.chu@gmail.com

⌂ github.com/chmao99

☏ (650) 200-0110

SKILLS

Excel/Google Sheets
SQL
R
Matlab
Regression Analysis
Time Series Analysis
Statistical Test
Project Management
Leadership Experience

🎓 EDUCATION

anticipated 2023 | 2021	**enrolled M.S., Data Analyst and Program Evaluation** online, U.S. 📍 Arizona State University
2005 | 2002	**M.S., Meteorology** Beijing, China 📍 Chinese Academy of Meteorological Sciences
2002 | 1998	**B.S., Meteorology** Qingdao, China 📍 Ocean University of China

💻 RESEARCH EXPERIENCE

2007 | 2005	**Research Assistant** Beijing, China 📍 National Climate Center of China

- Conducted Instrumental climate data clean and wrangling, examined and adjusted data inhomogeneity to get a homogeneous data set
- Visualized spatial and temporal distribution of temperature and precipitation in China over the past 100 years
- Evaluated urbanization effects on climate trends in China

2005 | 2003	**Graduate Researcher** Beijing, China 📍 National Climate Center of China

- Conducted regional proxy and instrumental climate data clean, wrangling, and interpolation to get high-resolution temperature and poxy data sets
- Designed and implemented clustering, EOF and regression analysis to catch temperature signals from proxy data, conducted trend and periodic analysis, and discussed its relationship with potential impact factors
- Visualized temperature change in China over the past 1000 years

Made with the R package pagedown.

The source code is available at github.com/nstrayer/cv.

Last updated on 2022-12-07.

🧳 INDUSTRY EXPERIENCE

2018 | 2010

Engineer / Deputy director of a division since 2012
Beijing, China   📍 Beijing Meteorological Service

- Coordinated Smart Weather program to support the construction of smart Beijing
- Coordinated internal meteorological data environment updating
- Provided weather supports to National Day mass parade, world championships, Beijing Marathon and the preparation of 2022 Winter Olympics

2010 | 2008

Project Manager
Beijing, China   📍 ecolutions new energy investment company

- Sought wind power, biomass and other new energy projects with carbon emission reductions in China for equity investment
- Implemented carbon emission reductions calculation and project profitability analysis on potential new energy projects
- led a small team with 2 full-time employees

2008 | 2007

Project Coordinator
Beijing, China   📍 WWF-China

- Conducted climate data analysis to clarify the fact of climate change at high altitude wetland areas in China
- Designed and implemented conservation program on climate adaptation at high altitude wetland areas
- Cooperated with surrounding countries on high altitude wetland conservation

I have worked in a variety of roles, most of which are relevant to climate data analysis and its application. I love the part of data analysis, which has the magic to change data from vexing chaotic to visual beauty. As a continuous learner, a re-starter with years of gap as a stay-at-home mom, I have been multithreading programmed and expect to be a better person than I was yesterday.

📖 PUBLICATIONS

2014

Effect of data homogenization on estimate of temperature trend: a case of Huairou station in Beijing Municipality
📍 Theoretical an Applied Climatology

- co-author

2008

Urbanization effects on observed surface air temperature trends in north China
📍 Journal of Climate

- co-author

2007

Implications of Temporal Change in Urban Heat Island Intensity Observed at Beijing and Wuhan Stations
📍 Geophysical Research Letter

- co-author