YI NIE

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EDUCATIONAL BACKGROUND

George Washington University (GWU)   *Washington DC; Sep.2020-Jan.2023*
- Columbia College of Arts and Sciences, Master of Science in Statistics; GPA: 3.82/4.0
- Core courses: Mathematical Statistics; Applied Linear Model; Longitudinal Data Analysis; Deep Learning; Bayesian Statistics; Survival Analysis; Introduction to Data Science

Northwest University (NWU)   *Xi'an; Sep.2015-Jun.2019*
- School of Mathematics, Bachelor of Science
- Core courses: Theory of Real Variable Function and Measure Theory, Functional Analysis, Statistical Machine Learning, Nonparametric Statistics, Multivariate Statistical Analysis

TECHNICAL SKILLS
- Programming Languages: Python(Advanced), R(Advanced), MATLAB(Competent)
- Tools: Pandas, Numpy, Pytorch, Tensorflow, Stat Model,…
- Machine Learning & Applications: Data Preprocessing, Supervised & Unsupervised Learning, Deep Learning
- Language: Chinese(Native), English(Advanced), Japanese(Advanced)

PROJECT EXPERIENCE

Application of GANs in the field of Image Generating   *April. 2022*
- Implement batch processing techniques to preprocess the data and prepare it for training the GANs
- Generate high-quality Ukiyoe-style images that closely resembled the images in the training dataset

Image Denoising and Inpainting with Convex Optimization Method | Python   *May 2021-Jun.2021*
- Instructor: Prof. Shlomo Ta'asan, Carnegie Mellon University
- Master the theoretical knowledge of continuous optimization and successfully implement mathematical optimization in python by using Numpy, Sklearn, etc.
- Proposed project about the application of LASSO in image denoising inpainting

Big Data and Blockchain Theory and Applied Science Seminar   *Jul.2021*
Held by the Chinese Association for Applied Statistics
- Took charge of informing the meeting schedule, making a list of the registered participants, and meeting minutes
- Exchanged ideas with experienced industry practitioners about metric/distance-based methods and their application in statistics to measure the conditional dependence

Investigation of Poisonous Wild Mushroom in Yunan | R，Tableau   *Sep.2019-Oct.2019*
- Extract and clean data from different sources from booth keeper, vendor and consumer
- Investigated health information of consumers, consumption preference, food poisoning experience
- Tracked data and computing process to shoot troubles
- Verified the record of monthly wild mushroom consumption

Statistical Application of Differential Privacy | Python，R   *Apr.2019-Jun.2019*
- Based on the algorithm framework of differential privacy proposed by Dwork, analyzed the effect of quadratic classifier based on differential privacy algorithm
- Explored the new algorithm to reduce the false discovery rate

INTERNSHIP EXPERIENCE

Teaching Assistant for Undergraduate Class, Mathematics and Policies   *Washington DC; Sep.2022-Dec.2022*
- Assisted the instructor in grading assignment, quiz and exams for undergraduate students
- Held discussion sessions to help students review and practice the lecture material

Administrative Office, Kunming Bureau of Statistics   *Kunming; Aug.2018-Sep.2018*
- Used Excel formulas to make statistical analysis of data about employee personnel and title information
- Became familiarized with the internal information management system qualification

HONOR

Dean's Scholarship, School of Mathematics, Northwest University   *Xi'an; Sep.2017-Sep.2018*
- Individual Scholarship for the outstanding academic performance

CAMPUS ACTIVITIES

Marketing Dept., Student Union of School of Mathematics   *Xi'an; Sep.2015-Sep.2016*
- Operated public WeChat account daily, updated articles and news, answered audience feedback
- Organized large scale activities, made posters and marketing materials for campus-wide activities

Marketing Dept., Kendo Club of Northwest University   *Xi'an; Sep.2017-Jun.2019*
- Took charge of club recruitment and training, organized internal competitions and activities