

LUWEI (CAROLINE) LEI

1860 N Scott St. Apt 544 Arlington, VA 22209
(814) 862-8939 • leiluwei4221@gmail.com

OBEJECTIVE

Seeking a summer internship in data science and analytics beginning in May 2020.

EDUCATION

Georgetown University

M.S. in Analytics, Data Science Track

Relevant Coursework: Optimization, Statistical Computing, Data Analytics

Expected Graduation: May 2021

GPA: 4.00/4.00

The Pennsylvania State University

B.S. in Computational Data Science

B.S. in System Analysis Mathematics

Relevant Coursework: Stochastic modeling, Data Structure and Algorithms, Computer Vision, Artificial Intelligence

Aug 2015 - May 2019

GPA: 3.61/4.00, Dean's List

SKILLS

- Technical: Python, R, SQL, MATLAB, Tableau, Scala, HTML, Adobe InDesign, HTML
- Languages: Fluent in English, Chinese

PROFESSIONAL EXPERIENCE

Software Engineer

SenseTime Artificial Intelligence Company

May 2019 - Aug 2019

Shanghai China

- Constructed Python user-end APIs for educational machine learning games for middle schoolers
- Designed games to help students understand Python programming knowledge
- Wrote a textbook to illustrate complementary basic algorithm logics, such as bubble sort
- Tested and optimized various game performances including voice recognition game and multi-armed bandit game

Research Assistant

The Pennsylvania State University

May 2018 - Aug 2018

State College, PA

- Tokenized over 7,000 U.S. government petitions into sentences
- Extracted and integrated natural language processing (NLP) features of the sentences including word embedding, dependency parsing and POS tag on Python
- Implemented a convolutional neural networks (CNN) to classify sentences based on semantic meanings and structures, and improved the model performance by 10%

Research Assistant

The Pennsylvania State University

Jan 2018 - May 2018

State College, PA

- Cleaned and analyzed large datasets to access the factors of recruitment decision making
- Established multiple SVM and neural network models with different sensitive attributes to predict hiring decisions
- Summarized underlying patterns of hiring decisions in industries by comparing the predictions with real-world datasets

UNIVERSITY PROJECTS

Social and Economic Impacts of Broadway Shows

Aug 2019 - Present

- Scrapped over 50,000 records of weekly gross data and textual reviews, evaluated data cleanliness by self-defined quality metrics
- Conducted exploratory analysis and constructed predictive models including random forest, neural networks to predict sales

Discovering Climate Changes in Tree Ring and PDSI Data

Jan 2019 - May 2019

- Adapted time series to analyze different species and geolocation of tree ring width in past thousands of years
- Evaluated the drought conditions using quantitative analysis, and predicted long-term climate changes based on evaluations

AWARDS & INVOLVEMENT

- Teaching Assistant for Computational Linguistics Course
- Member of Association of Analytics for Non-profit
- Teaching Assistant for Python and SQL Data Science Course

Jan 2020 - Present

Aug 2019 - Present

Aug 2017 - May 2019

- Winner of 2019 ASA DataFest at Penn State University
 - Analyzed the factors of fatigue levels among Rugby team members and delivered valuable insights

April 2019

- Third Prize of HackPSU
 - Built a website to help people understand legal documents

March 2019

- Shortlist of Nittany AI Challenge
 - Received \$500 grand for purposing ideas to improve PSU e-library system

February 2019

- Best Visualization of 2018 ASA DataFest at Penn State University
 - Analyzed job site data and created interactive visualizations

April 2018