

LIANG, Jingyi

jingyiliang19@163.com | +1 917-783-5557 | #516, Zhonghua S. St., Qiaoxi Dist., Shijiazhuang, Hebei, China
050000

EDUCATION

China University of Geosciences (Wuhan)

Bachelor of Science in Geographic Information Science

GPA: 3.77/5.0

Wuhan, China

June 2019

PROFESSIONAL EXPERIENCE

Institute of Automation, Chinese Academy of Sciences

Research Assistant--Full Time

Beijing, China

11/05/2018-12/20/2018

- Participated in the project “WCST (Wisconsin Card Sorting Task) Platform Improvement” and undertook the task of implementing the training of the execution network
 - ✎ Engaged in the project discussions and worked out the problem-solving strategies with my partners
 - ✎ Deepened my knowledge of Python and studied Pygame from scratch to debug the logic of platform and create the execution network dataset that met the platform requirements
 - ✎ Completed the design and training of the executive network ahead of schedule and helped my partners with the policy-based network dataset
 - ✎ Simulated the training of the double-layer MLP network and implemented the docking of the MLP and LSTM networks
 - ✎ Completed the contrast training experiment based on two MLP networks
- Participated in the project “Chinese Short Text Classification with Mutual-Attention Convolutional Neural Networks”
 - ✎ Read the literature, made a comparative study of existing methods, and engaged in group discussions to find the innovation points
 - ✎ Responsible for short text data collection and part of the code debugging task
 - ✎ Participated in the paper writing and revising

Wuhan Education First

Assistant Teacher--Part Time

Wuhan, China

03/2017-06/2017

- Acted as an interpreter for foreign teachers in and out of class
- Helped foreign teacher to check class assignments and homework
- Assisted with communications between foreign teachers and students' parents after class

RESEARCH FINDINGS

- Paper “Chinese Short Text Classification with Mutual-Attention Convolutional Neural Networks.” To be submitted for review. Third Author
- Paper “A Spatially Constrained Multi-Auto-encoder Approach for Multivariate Geochemical Anomaly Recognition.” Under the second-round review of Computers and Geosciences (SCI). Co-author
- Software Copyright “SCMA-Based Multivariate Geochemical Anomaly Intelligent Recognition.” Approved and issued by National Copyright Administration of P.R. China on 11/19/2018. Fourth Author
- Patent “Method and Flow for Multivariate Geochemical Anomaly Recognition Based on Convolutional Auto-encoder Neural Network.” Under substantive review of National Intellectual Property Administration, PRC with the patent certificate expected in June 2019. Member of the R&D team

ACADEMIC EXPERIENCE

Interdisciplinary Contest in Modeling (ICM)

Participant

Wuhan, China

02/2018

- Teamed up with two classmates to sign up for the ICM (E) Problem on the topic of “How Climate Change Affects Regional Instability” and won the honor of successful participant
- Discussed with teammates and our instructor to determine the problem-solving strategy and studied MATLAB

- Summarized and categorized data collected from relevant websites for further analysis
- Used GeoDa and ArcGIS to conduct spatial data analysis as well as GIS visualization of partial data

Algorithm Design and Implementation of Multivariate Geochemical Anomaly Recognition Based on Convolutional Auto-encoder Neural Network

Wuhan, China
10/2017-06/2018

Team Leader

- Conducted literature review and undertook part of the code writing and modifications
- Discussed with the advisor and a doctoral student to work out the project plan and then led the team to implement it
- Participated in the presentation and defense session as the keynote speaker and led the team to win a second prize in the CUG Production, Teaching, and Research Activity and get financial support from the College Students Independent Innovation Funding Scheme Sailing Project

MapGIS Secondary Development Competition

Wuhan, China
07/2017-09/2017

Participant

- Discussed with team members to determine target functions and task allocation
- Learned JavaScript by myself for page development
- Planned and constructed the system structure and achieve preset functions through C# and JavaScript programming

Library Management System

Wuhan, China
06/2017-07/2017

Developer

- Developed a library management system, including the borrowing and reading system of books in library and librarian management system
- Learned C# programming and interface design by myself

EXTRACURRICULAR ACTIVITIES

Department of Culture and Sports, School of Information Engineering

Wuhan, China
06/2016-06/2017

Deputy Director

- Planned and organized many cultural and sports events on campus, such as the Welcome Party for the first-year students enrolled in fall 2016, annual sports meetings, and Campus Top Ten Singers competition

ACHIEVEMENTS & AWARDS

- National Scholarship 11/2017
- Excellent Cadre of Communist Youth League of the School of Information Engineering 05/2017
- Second Award of Group C in National English Competition for College Students 04/2017

TECHNICAL PROFICIENCIES

- Proficient in Adobe Illustrator, 3Ds Max, SketchUp, ArcGIS, SPSS, Tensorflow and Oracle
- Familiar with Java, Python, PyGame, C#, C++, VB, and database technology