

EDUCATION	
• Waseda University <i>M.Eng. in Information, Production and Systems Engineering</i> <i>Courses: Bioinformatics, Biological Information Engineering, Machine Learning, Neural Networks, Design of Heuristic Search and its Application, Big Data Analysis and Security</i>	Kitakyushu, Japan Sep 2022 - Sep 2024 (Expected)
• Sichuan University <i>B.Eng. in Cybersecurity</i> <i>Courses: Discrete Mathematics, Probability Statistics, Data Mining for Cybersecurity, Big Data Analysis and Privacy Protection, Applied Cryptography, Introduction to Artificial Intelligence</i>	Chengdu, China Sep 2018 - Jun 2022
PROJECT / RESEARCH EXPERIENCE	
• Deconvolution of Various Cellular Contents from BulkRNA-seq and ScRNA-seq <i>Advisor: Prof. Junko TAKAHASHI</i> ◦ Duties included:: Dataset collection and quality control, generating reference gene expression matrix for deconvolution, simulating the generation of BulkRNA datasets, and evaluating the performance of different deconvolution methods.	Kitakyushu, Japan Sep 2023 - Present
• Genomic DNA qPCR Analysis to Assess the Amount of Human and Mouse Tissue Present in Tumor Xenografts <i>Advisor: Prof. Junko TAKAHASHI</i> ◦ Gene Screening: Identifying chromosomal regions that do not often occur in human diseases, selecting only genes that code for proteins, filtering out complementary genes, and ensuring that the selected genes are highly specific. ◦ Primer Design: Considering that exons are less prone to mutation than introns, placing an amplicon sequence in one exon of a gene is preferred to improve the reliability of the results.	Kitakyushu, Japan Aug 2023 - Present
• Research on the Description and Discovery of Network Virtual Resources <i>Advisor: Assoc. Prof. Shuhua RUAN</i> ◦ Data Collection: A crawler capable of comprehensive and efficient data collection is implemented, and a user feature discrimination criterion is proposed for manual tagging to improve the dataset. ◦ Feature Extraction: A total of twenty features are proposed in four categories: basic features, behavioral features, content features, and temporal features, which can better describe and distinguish these users. ◦ Methodology: A new deep neural network model is designed to achieve effective discovery of abnormal users by combining DenseNet, BiLSTM and Attention Mechanism, which has a performance under data sets of different sizes and balances, and can be accurately and well used for the discovery of virtual users.	Chengdu, China Dec 2021 - Apr 2022
• Development of a Predictive Model for Determining the Spatial Trajectory of Mobile Objects Based on Motion Patterns <i>Advisor: Assoc. Prof. Jin YANG</i> ◦ Methodology: Propose a method based on Bidirectional-LSTMs + Markov hybrid model for the moving object location prediction problem. ◦ Optimization: The gradient-based optimization algorithm, the adam algorithm, the overall performance of it is relatively better. Markov mainly corrects the results predicted by BiLSTMs, and the first-order Markov model is used. ◦ Result: Experimental findings indicate that BiLSTMs show improved moving path prediction accuracy, which further improves after applying the Markov model correction. The error is only half the original. This results in significantly enhanced prediction precision and reliability.	Chengdu, China Sep 2020 - Dec 2020
WORK EXPERIENCE	
• Base for information security throughout the country <i>Internship</i> ◦ Duties included: : Use SpringBoot framework to realize WEB modular development, and build a server platform for baseline verification. Python was used to complete the development of baseline configuration verification system and realize the automatic detection of unsafe configuration of Windows system.	Chengdu, China Jun 2021 - Jul 2021
SKILLS SUMMARY	
• Languages:	Proficient in Python, R, familiar with C, Java
• Operating Systems:	Proficient in Windows and Linux environments
• Softwares:	Proficient in Microsoft Office, Markdown, familiar with LaTeX, Git
• Machine Learning:	Experienced in diverse ML algorithms and deep learning frameworks
EXTRACURRICULAR ACTIVITIES	
• TA for Medical Device Engineering <i>Teaching Assistant</i> ◦ Duties included: : Responsible for assisting the professor with teaching duties, including class preparation, attendance recording, answering questions, and checking assignments.	Kitakyushu, Japan Sep 2023 - Present
• Data Analysis of the Epidemic <i>Volunteer</i> ◦ Duties included: : Took on the responsibility of meticulously verifying information, followed by proficiently executing the process of data dissemination and seamless integration into relevant systems.	Korla, China Feb 2020 - Mar 2020