

Jia-Wei Liao

☎ 0939-580-280 ✉ jw@cmlab.csie.ntu.edu.tw 📧 jia-wei-liao 🌐 Jia-Wei-Liao 🌐 jia-wei-liao.github.io/

SUMMARY

Hi, I'm Jia-Wei. I'm currently a Ph.D. student at NTU CSIE, and I also served as a data analyst intern at Appier. I have hands-on experience in the field through internships. My research interests are in the areas of data science and computer vision. I am excited to apply my skills and knowledge to new challenges and opportunities in the industry, particularly in these fields.

EXPERIENCE

- **Appier** Taiwan, Taipei
Aug 2022 - Present
Data Analyst Internship in AiDeal ML Team · SaaS · E-commerce · MarTech
 1. **Feature Engineering:** Develop new features to improve the accuracy of the model.
 2. **Machine Learning:** Develop a model to detect the tendency of users to purchase items.
 3. **Data Science:** Develop evaluation metrics to measure the cost-benefit trade-off of the implementation.
 4. **Data Analysis:** Develop new scripts to assist in data analysis and utilize web scraping to detect patterns on web pages.
- **TMBA** Taiwan, Taipei
Jul 2021 - Present
Member of Strategic Marketing Department
- **National Center for Theoretical Sciences** Taiwan, Taipei
Jul 2020 - Aug 2020
Undergraduate Summer Research Project
 1. Design a new variational-based image denoising model demonstrate its feasibility.
 2. Design an end-to-end image stitching algorithm and improve computational efficiency.

EDUCATION

- **National Taiwan University** Taiwan, Taipei
Sep 2022 - present
PhD Student of Computer Science and Information Engineering · GPA: 4.3 / 4.3 · Ranking: 1 / 18
Research: Machine Learning, and Computer Vision
Courses: Computer Vision, and Information Retrieval and Extraction
- **National Yang Ming Chiao Tung University** Taiwan, Hsinchu
Sep 2020 - Aug 2022
Master of Applied Mathematics · GPA: 4.28 / 4.3 · Ranking: 1 / 27
Research: Computer Vision, Deep Learning, and Scientific Computing
Courses: Machine Learning, Data Science, Data Mining, Advanced Probability, Matrix Computing, and Numerical Optimization
- **National Taiwan Normal University** Taiwan, Taipei
Aug 2016 - Jun 2020
Bachelor of Mathematics with Educational Program · GPA: 4.06 / 4.3 · Ranking: 3 / 89

PROJECTS

- **Crop Image Recognition** · Python · 🌐 · 📄 Dec 2022
- **Interpretive Information Labeling for Natural Language Processing** · Python · 🌐 Dec 2022
- **Low-power Lane Semantic Segmentation** · Python · 🌐 Jun 2022
- **Contour Segmentation for Spread Through Air Spaces in Lung Adenocarcinoma** · Python · 🌐 Jun 2022
- **Supervised Learning for Few-Shot Orchid types Classification with Prior Guided Feature** · Python · 🌐 Jun 2022
- **Ultrasound Nerve Segmentation** · Python · 🌐 · 📄 Jan 2022
- **Sentiment Analysis of Food Reviews on Yelp Platform** · Python Dec 2021
- **Low-rank Matrix Approximation for Recommender System** · MATLAB · 🌐 Dec 2021
- **Mean Curvature Flow on Graphs for Image Denoising** · MATLAB · 🌐 Jan 2021
- **Dictionary Learning for Image Inpainting** · MATLAB · 🌐 Dec 2020

SKILLS

- **Programming Language:** Python, MATLAB, C, C++, SQL, MongoDB and LaTeX
- **Framework:** PyTorch, TensorFlow, Keras, and Scikit
- **Developer Tool:** Git, VS Code, Jupyter, and Vim

HONORS

- AI CUP 2022 Fall Competition Honorable Mention Award * 3 · 🌐 Jan 2023
- Diligent Doctoral Student Scholarship · 🌐 Jan 2023
- AI CUP 2022 Spring Competition Merit Award and MATLAB Outstanding Application First Price · 🌐 Jul 2022
- TWSIAM 2022 Paper Poster Contest Second Place Award · 🌐 Jul 2022
- Academia Sinica Dr. Chou-Hung-Ching Scholarship · 🌐 Dec 2021