

# SIYANG JIANG

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## OBJECT

A master student from Computer Science Group, Graduate Institute of Electrical Engineering, NTU, seeking for a Ph.D. or RA Position about Computer Vision.

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## EDUCATION

**National Taiwan University**, Graduate Institute of Electrical Engineering, Taipei, Taiwan  
M.S. Computer Science Group, 09/2019-08/2021

Overall GPA: 4.3/4.3, Rank: 1/91; Supervisor: [Ming-Syan Chen](#)

Coursework: Computer Vision from Geometry, Deep Learning for Computer Vision, Matrix Computing

**Shaanxi Normal University**, School of Mathematics and Information Science, Xi'an, China  
B.S. Information and Computing Science, 09/2015-06/2019

Overall GPA: 3.7/5.0; Avg. Scores: 89.0/100; Rank: 4/41

Coursework: Calculus, Advanced Algebra, Modern algebra, Real Analysis, Machine Learning

**National Taiwan Normal University**, Department of Mathematics, Taipei, Taiwan  
Exchange Student 02/2018-07/2018

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## PUBLICATIONS

- **Journal**

**Siyang Jiang**, Xiuyan Yao, Qianju Long, Jiali Chen, Hui Jiang. Fund investment decision in support vector classification based on information entropy, *Review of Economics & Finance*, 2019(1):57-66.

**Siyang Jiang**, Long Cheng, Hui Jiang. Research of modified ternary search algorithm and its applications, *Journal of Huizhou University*, 2017(6): 33-43.

- **Conference under Review Paper**

**Siyang Jiang**, Wei Ding, Hsi-Wen Chen, Ming-Syan Chen. PRADA: Perturbation-Guided Adversarial Data Generation for Few-shot Learning Under Support-Query Shift [\[Paper\]](#)

Jian Hu\*, **Siyang Jiang**\*, Haibin Wu, Seth Austin Harding, Shih-Wei Liao. Rethinking the Importance of Implementation tricks in Multi-Agent Reinforcement Learning. [\[Paper\]](#)

**Siyang Jiang**, Hsi-Wen Chen, Ming-Syan Chen. Dataflow Systolic Array Implementations of Exploring Dual-Triangular Structure in QR Decomposition Using High-Level Synthesis

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## PATENT

**Patent for Invention** Under Review 2021-present

- *Library Journal Citation Reports Management System*

Management the Journal/Conference Citation information and produce reports with machine learning algorithms to Library in Universities.

Have already applied in a [businesses](#).

**Computer Software Copyright of China** Certification ID: 2018SR134747 2018

- *Big data intelligent collection and statistical analysis management system*

Used to collect and analyze large-capacity data which is difficult to capture, manage, and analyze.

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\*These authors contributed equally to this work.

## SELECTED HONOR

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- Merit student Four Consecutive Years
- First Class Excellent Scholarship Four Consecutive Years
- "KaiLiXin Materials" Scholarship (1/228)
- National College Student Business Plan Competition in 2016 Bronze Award

## SELECTED COMPETITIONS

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**Big Number Factorization** [[Project](#)] 02/2018 - 08/2018

- **Ranking: Top 1%, Second Prize**
- Used several algorithms such as Pollard rho algorithm, Pollard p-1 algorithm, etc., to factor a 432 in decimal big number.

**Medical Imaging** [[Project](#)] 12/2020 - 01/2021

- **Ranking: 3/18**
- Used two stages CNN-LSTM to solve cerebral hemorrhage image classification problem.
- Using self-supervised learning in small dataset to improve the performance via explore more information.

**Kaggle Completion: Cassava Leaf Disease Classification** [[Github](#)] 12/2020 - 02/2021

- **Ranking: Top 7%**
- A EfficientNet-based network was used to solve leaf disease classification problem in a truly dataset with 21,367 labeled images.
- Ensemble method, data augmentation method and kinds of loss were implemented to improve the classification accuracy.

## INTERN AND EXTRACURRICULAR ACTIVITY

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**Digital China Information Service Company (Xi'an)** 09-11/2018

- Excellent Intern Student
- Building a bank business system, which was stable in our test, with basic CRUD features within for bank business.

**Big data and AI Summer Camp** 07-08/2018

- Teaching Assistant
- Assist the professor from Shanghai Jiao Tong University for dealing with the Spark and Hadoop problems for the students in the camp.

## SKILLS

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**Programing Tools** Python, Matlab, C/C++, R, Vivado HLS, HTML, Php, L<sup>A</sup>T<sub>E</sub>X  
**Framework** Pytorch  
**Languages:** English (Fluent), Mandarin (Native)

## ACADEMIC SERVICES

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Reviewer *ECML-PKDD*, *PAKDD*.