**康奈尔大学**

导师信息

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| --- | --- |
| Name | Profile |
| Dr. Yu Jiang | Assistant Research Professor, Systems Engineering and Data Analytics, research interests: digital agriculture, high throughput plant phenotyping, agricultural intelligence, and agricultural robotics  <https://cals.cornell.edu/yu-jiang> |
| Prof. Lailiang Cheng | Professor, Fruit crop nutrition physiology and carbon and nitrogen metabolism  <https://hort.cals.cornell.edu/people/lailiang-cheng/> |
| Dr. Neil Mattson | Associate Professor, Greenhouse horticulture  <https://hort.cals.cornell.edu/people/neil-mattson/> |

可选题目

Autonomous, high throughput plant phenotyping for aquaponic systems

Fluorescent imaging-based characterization of crop photosynthetic activities

Deep learning-based multimodal sensing fusion and decision-making for aquaponic system management

**萨里大学**

导师信息

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| --- | --- |
| Name | Profile |
| Prof. Guoping Lian | <https://www.surrey.ac.uk/people/guoping-lian> |
| Prof. Tao Chen | <https://www.surrey.ac.uk/people/tao-chen> |
| Dr. Michael Short | <https://www.surrey.ac.uk/people/michael-short> |
| Prof. Pei Xiao | <https://www.surrey.ac.uk/people/pei-xiao> |

可选题目

鱼菜共生循环水系统溶解氧变异规律与优化调控策略研究

Precise regulation and optimization DO in aquaponics circulating water system

鱼菜共生水体总氮与蔬菜生物量最佳配比策略研究

The optimized Proportion between vegetable biomass and Total Ammonia in aquaponics waterbody

基于5G的鱼菜共生鱼类摄食行为的快速识别与预警研究

Rapid detection of fish feeding behavior and early warning system for aquaponics system

基于5G的网箱养殖鱼类摄食行为监测机器人研究

5G based under water robot for fish feeding behavior monitoring in net cage farming

鱼菜共生水体多参数评估与智能调控

Multi-parameter fine coupling automatic control for aquaponics waterbody

鱼菜共生养殖环境-营养液环境参数的快速检测与评估研究

Rapid detection of environmental parameters for aquaculture and nutrient solution based on aquaponics system

基于数据驱动的鱼菜共生耦合系统生存环境精准调控

Precise control of the living environment of aquaponics coupling system based on data driven

Optimal multi-level decision-making for industrial aquaculture through integrating operational and strategic supply chain decision-making in a single framework

利物浦大学

导师信息

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| --- | --- |
| Name | Profile |
| Dr. David Chow （必选） | <https://www.liverpool.ac.uk/architecture/staff/david-chow/> |
| Dr. Jiangtao Du （必选） | liverpool.ac.uk/architecture/staff/jiangtao-du/ |
| Dr Ranald Lawrence | <https://www.liverpool.ac.uk/architecture/staff/ranald-lawrence/> |
| Dr Haniyeh Mohammadpourkarbasi | <https://www.liverpool.ac.uk/architecture/staff/haniyeh-mohammadpourkarbasi-2/> |
| Dr Stephen Finnegan | <https://www.liverpool.ac.uk/architecture/staff/stephen-finnegan/> |
| Dr Han-Mei Chen | <https://www.liverpool.ac.uk/architecture/staff/han-mei-chen/> |

可选题目

低碳的水产养殖和水培系统（鱼菜共生温室）设施

Low carbon aquaponics systems and facilities

可改善室内农业设施（鱼菜共生温室为例）绿色生产的最佳环境和能源控制技术

Optimal environmental and energy control technologies to improve green productions of indoor farming facilities

新型的园艺照明和室内养殖设施（鱼菜共生温室为例）规划

Innovative horticulture lighting and indoor farming facility planning

气候变化和先进的室内养殖设施（鱼菜共生温室为例）的设计

Climate change and the design of advanced indoor farming facilities

中国农业大学导师

李道亮、陈英义、李振波、段青玲、安冬、王洋、张小栓教授，位耀光、赵然、巨云涛副教授