Yunqing Liu

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1998-05

Education Experience

Wuhan University   2016.09 - 2020.05
Chemistry (Bachelor of Science)

- GPA : 3.6 / 4.0 (**top 10%**)
- **Honor & Awards** :
  - **Excellent graduate**,Wuhan University(2020.6)
  - Asia and Pacific Mathematical Contest in Modeling Second Prize(2018.11)
  - **Merit student**,Wuhan University (2019)
  - **First level scholarship**,Wuhan University (2019)
  - Blue moon special scholarship,Wuhan University(2019)
  - Second level scholarship,Wuhan Universit (2016-2018)
  - Outstanding Student Scholarship (2016-2018)

Wuhan University   2016.09 - 2020.05
Computer Science and Technology(Bachelor of Engineering)

- GPA : 3.6 / 4.0 (**top 5%**)

The University of Edinburgh   2021.09 - 2022.08
Computer Science (Master of Science)

- Taking "Machine Learning and Pattern Recognition" "Machine Learning Practical" "Machine Learning Theory"

Project Experience

Application of maxSAT in maxCut problem   2020.12 - 2021.05

- Internship in State Key Laboratory of Computer Science, Institute of Software Chinese Academy of Science.
- Realize that the maxCut problem is coded in the same way as the maxSAT problem, and optimized using genetic algorithm and tabu search.

State evaluation and replacement of smart watt-hour meter of State Grid phase I   2020.09 - 2020.11

- The ridge regression method is used to establish a multiple regression equation to predict the power supply of each station area.
- Find the electric energy meter with low accuracy, issue the work order, and replace the electric energy meter.

Drug design and attribute prediction based on Artificial Intelligence   2020.01 - 2020.05

- Internship in Center for High Performance Computing, Shenzhen Institute of Advanced Technology Chinese Academy of Sciences.
- RNN generation model was used to generate small organic molecules, and the difficulty of their synthesis was judged.
- The graph convolution network is used to predict the Drug-Target affinity.

Photoredox C-H amidation   2020.10 - 2021.04

- Redox C-H amidation of n-unprotected indole derivatives was realized by green LED irradiation at room temperature.
- Use density functional theory to calculate and predict the energy of the reaction
- Publish a paper in Organic Letters : 《Late-Stage Photoredox C-H Amidation of N-Unprotected Indole Derivatives: Access to N-(indol-2-yl)amides》,https://doi.org/10.1021/acs.orglett.1c00609

Photocatalytic tryptophan activation   2017.11 - 2019.05

- Trifluoromethylation of tryptophan containing peptides was achieved under mild, biocompatible, and direct conditions.
- Publish a paper in EurJOC:《Selective Photoredox Trifluoromethylation of Tryptophan-Containing Peptides》,https://doi.org/10.1002/ejoc.201901572

Community&Organizational Experience

Chorus of School of chemistry and Molecular Sciences, Wuhan University   2016.09 - 2018.03
Post : Head

Chemical base class 2/ Computer Science class 1   2016.09 - 2020.05
Post : Monitor

Skills&Hobbies

- **Skills：** Python、C、Java、SQL
- **Related Course：** "*Advanced mathematics*", "*Linear algebra*", "*Probability theory and mathematical statistics*", "*Mathematical model*", "*Pattern recognition*", "*Operations research*"
- **Hobbies：** Violin, Football, Guitar, Singing