Jizhao Qin   *Curriculum Vitae*

Personal Information

Given Name	Jizhao
Family Name	Qin
Birthday	18.09.2000
Nationality	Chinese
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Education

10/2022 - Today	**M.Sc. Astrophysics**, *LMU*, München, Germany
09/2018 - 06/2022	**B.Sc. Physics**, *Southern University of Science and Technology*, Shenzhen, China Note: 90 out of 100 (equivalent to 1.7 in German system)

Experience On AI And Programming

Deep Learning, *LMU*, München, Germany
- To determine the mass of galaxy clusters with detected data (X-ray images) from observatories, using CNN (Convolutional Neural Networks) methods.
- Python code, based on Keras (an API for Tensorflow), on remote Linux server.
- Brief knowledge and practice of the loss function, optimizer, data reforming and the structure of deep learning.

Statistical Data Analysis, *LMU*, München, Germany
- Theoretical and programming skills on statistical data analysis, in the field of climate and meteorology. Including probabilities, hypothesis testing, regression, correlation, etc.
- Data analysis and visualisation done with Python.

Gravitational Dynamics, *LMU*, München, Germany
- Simulations based on Astrodynamics, including 3-body problem, Lagrange points, galaxy collisions, etc.
- Simulations on C++ code; data analysis and visualisation done with Python.

Numerical Labs, *LMU*, München, Germany
- Important code skills and algorithm on scientific computations and simulations, using physics problems as prompt. Including numerical integration, ordinary differential equation (ODE), matrix inversion, Monte Carlo simulations.
- Based on Python and Jupyter Notebook.

Honors

01/2021	**Silver Medal Winner of The 2020 University Physics Competition** - Top 15% out of 346 teams worldwide. - Physical and numerical modeling for *Quadcopter Stability in Wind*. - Mostly theoretical modeling, Matlab used for numerical validations.

Others

Language Skills	Chinese (Native), English (Fluent)
Programming Skills	Python, C++, C, Java, Linux, Latex
Job Interest	AI, algorithm, IT development, data processing and analysis

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München, 15.08.2023, Jizhao Qin