



WANG Chong

Date of Birth: 21/12/2001

Master candidate

Computer Science

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EDUCATION

- **Beijing Jiaotong University** 09/2022-07/2025
Computer Science and Technology, Master Degree CGPA/Percentage: 84.03
- **Technical University of Darmstadt** 03/2024-09/2024
Computer Science Exchange student
- **Beijing Jiaotong University** 09/2018-07/2022
Applied Physics, Bachelor Degree Graduation Project: A

EXPERIENCE

- **China Aerospace Science and Industry Corporation Limited** 09/2022-02/2024
Member of the CASIC-BJTU Joint Laboratory Yongding Rd, Beijing
 - The problem of interpolating discrete data into continuous functions
 - The problem of Obstacle Avoidance in Aircraft Flight
 - Building motion models and deep learning models

PERSONAL PROJECTS

- **Modeling Irregular Time Series with Neural Differential Equations** 08/2024-01/2025
Modeling the potential continuous-time dynamics of discrete-time data using neural differential equations.
 - Methods: Latent ODE, Continuous Time Attention Mechanism, Neural SDE
- **Flight Obstacle Avoidance Control Based on Neural Networks** 06/2023-09/2023
Adding neural network disturbances to the reference trajectory to avoid obstacles.
 - Methods: Deep feedforward network
- **Aircraft trajectory data generation** 01/2023-05/2023
Integrate the flight dynamics equations to simulate the reference trajectory.
 - Methods: Runge-Kutta Method, Euler Method
- **Aerodynamic parameter interpolation** 09/2022-12/2022
Interpolate and fit aerodynamic parameters for calibration.
 - Methods: Chebyshev Polynomial, Legendre Polynomial, Feedforward neural network

TECHNICAL SKILLS AND INTERESTS

Languages: English: TOEFL 99, German: Entry level

Developer Tools: Visual Studio Code, Python(skillful), Jupyter Notebook, C, Matlab

Frameworks: Tensorflow2.x, Pytorch, Mindspore, Jax

Soft Skills: Latex, Microsoft Family, WPS, ChatGPT, Github Copilot

Areas of Interest: Physics-Informed Machine Learning, Neural Differential Equations, Generative Models

AWARDS

- **Celebration of the 70th Anniversary of the Founding of the P.R.China: Advanced Individual** 11/2019
- **Beijing Jiaotong University 2019 undergraduate social practice: Advanced Individual** 12/2019
- **Second Prize in the 12th National College Student Mathematics Competition** 12/2020
- **Second Prize of the 31st Beijing University Mathematics Competition** 12/2020
- **Beijing Jiaotong University Master's Second Class Scholarship** 01/2023
- **Beijing Jiaotong University Master's Second Class Scholarship** 10/2023

PUBLICATION

International Joint Conference on Neural Networks, 2025 (Accept)

SDEFormer: Neural Stochastic Differential Equations for Continuous-Time Transformers in Irregular Time Series Modeling, *First author*

Journal of Polymer Science, 2022 (Published)(National Training Program of Innovation and Entrepreneurship for Undergraduates)

Ternary-organic photovoltaics with J71 as donor and two compatible nonfullerene acceptors, *Second author*