**Tiantian Chen**

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**Education**

**TUBS/TU Braunschweig** Braunschweig, Germany

International Exchange Program for Outstanding Undergraduates

**Beihang University** Beijing, China

Candidate for the Master’s degree in fluid mechanics 09/2019 - Present

* Overall GPA: 3.67/4.00 ranked 2/45
* Second-class scholarship (2019 and 2020)

**Northwestern Polytechnical University**  Xi’an China

Bachelor’s degree in Flight Vehicle Design and Engineering 09/2015 - 07/2019

* Overall GPA: 3.64/4.00 ranked 5/250

**Research**

**Postgraduate Stage**

Study the aerodynamic characteristics of samara and the dynamic stability of maple seeds.

* Observed how the rotation of maple seed's’ wings causes air vortexes while falling.
* Measured the air flow when maple seeds and samara hover.
* Explored whether maple seeds and samara could bring new ideas to the design of rotary wing vehicles such as parachutes or helicopters.

**Undergraduate Stage**

Using python to train neural network for flight control system

* Built the neural network model, including introducing import numpy, import scipy.special, import matplotlib.pyplot and %matplotlib inline.
* Used functions to write a neural network framework and write specific functions.
* Trained the neural network model, including setting the neural network parameters, importing training data, training the neural network functions in dealing with flight performance.
* Tested the neural network model, including importing test data, and letting this neural network model learn the potential real dynamics model of the flight control system.

**Activity**

**Volunteer**

* Got the basic information of phone number, dormitory, class and student number freshman in charge from the person in charge of each department.
* Followed up freshmen’ dynamics in time, and provided feedback for the person in charge.
* Answered various questions encountered by freshmen.
* Guided freshmen to their dorms, and assisted them with check-in procedures.
* Helped freshmen to complete other necessary admission procedures.
* Assisted freshmen to familiarize themselves with the campus environment.

**Other**

* Language: Chinese (native). English (TOEFL: 103). German (basic).
* Software: proficient in MS Office (Word, Excel and PowerPoint), C++, Matlab, Python, catia, solidworks, ICEM, and pointwise. Capable of using Fluent for numerical simulation of fluid mechanics.
* Interest: enjoy climbing, swimming and traveling.