**For Mathematics Teacher**

**Course:** Pre-IBDP Mathematics (2018-2019, Statistics and Probability, Math Proof and Number Theory)

**Teacher:** Kokming Lee

**Email:** [kmlee@uwcchina.org](mailto:kmlee@uwcchina.org)

**Mathematical Awards/Honors:**

* will take AMC 12 in February, 2019;
* 2018, First Prize (China), Math League, qualified for US Final (at Stanford) and its Math Camp (co-held by the Departments of Mathematics of Princeton University, Columbia University and Williams College);
* 2017, Second Price, Jiangsu Junior High School Mathematics Competition;
* 2017, Second Place (Global Final), The Berkeley Mini Math Tournament (BmMT).

**Involvement in Mathematics:**

I’m currently doing a math project about air pollution management by applying what I’ve acquired from last semester course. The project requires me to record all relevant data of air pollution in Changshu Region for a year. And I’ll build mathematical modelling and analyze the variation of different pollutants, considering the effect of time and season on the spread of these pollutants. After doing that, some possible solutions for the pollution management will be proposed to improve air quality. In order to better achieve this math project, I’m self-studying some math curriculum contents outside of classroom, matrix and linear regression, to name but a few.

**Your Passion for Mathematics:**

My passion for Math derives from the willingness to take on new challenges and the sense of achievement gained after pushing my limits. I enjoy the feeling of being alone in the world of mathematics and dealing with numbers and curves without any disturb from the outside world. I am especially passionate about how math can be linked with the real world. For example, expectation can be used for people to weigh the pros and cons in their daily life, and regression can help explain why it is hard for someone to keep the first place.

**Your Understanding of Mathematics:**

Mathematics is everywhere. It’s a subject of interdisciplinary. Math is the basis for my study of sciences, like John Michell’s application of statistics (the method of reductio ad unlikely) on the study of Pleiades; it helps with the investigation in my studies of social science, as applying statistics and probability a lot in the data analysis of the experiments of social norm; some mathematical theories like Bayes’s Theorem even reaches philosophy; it also inspires me in art creation and photography because of the symmetry, simplicity of math, as well as Filippo Brunelleschi’s idea of the phenomenon of perspective by using projective geometry.

**Your Goal in Mathematics:**

My goal in Mathematics is not only to develop a rigorous thinking habit for life, but also to use mathematics as a tool to help solve real-world issues just like my project on mathematics in air pollution, as well as broader fields of application.

**Notes for Online Recommendation**

**HCSSiM**

After I submitted my application, HCSSiM may email you a recommendation link. I’ll definitely submit the application this month.

**Math Camp**

I’ve added you as my math recommender online. The recommendation link should have arrived at your email.

Deadline: ASAP (Only after all materials are completed can I submit the application.)

**PROMYS**

Here is the link for your online recommendation: [promys.org/Teacher-Recommendation-Form](https://promys.org/Teacher-Recommendation-Form)

Deadline: before this month ends

**Mathworks (HSMC)**

Here is the link for the online recommendation:

<https://www.txstate.edu/mathworks/camps/applications/teacher-recommendation.html>

Note: I’m applying to the **HSMC** program.

**MathILy**

After I submitted my application, MathILy may email you the recommendation link.

**AwesomeMath**

You may help send the recommendation letter to an assigned email address, (after I submit the whole application).

And, the recommendation letter should include my personal information.

First and Last Name: Ruiyan Huang

Student UIN: 917885291