Ren Wang

A simple CV

Education

2014–2017   **High School**, *Wuhu No.1 Middle School*, Wuhu, Anhui.

2017–   **B.S.**, *Southern University of Science and Technology (SUSTech)*, Shenzhen.
Ongoing

Undergraduate Math Courses

Past

2017–2018   **Calculus I-A**, *Fall Semester*.
Textbook: *Thomas' Calculus*.

2017–2018   **Linear Algebra I-A**, *Fall Semester*.
Textbook: *Linear Algebra and Its Applications* by Gilbert Strang.

2017–2018   **Calculus II-A**, *Spring Semester*.
Textbook: *Thomas' Calculus*.

2017–2018   **Linear Algebra II**, *Spring Semester*.
Textbook: *Linear Algebra Done Right*.

2018–2019   **Elementary Number Theory**, *Fall Semester*.
Textbook: *Elementary Number Theory* by Kenneth H. Rosen.

2018–2019   **Probability and Statistics**, *Fall Semester*.
Textbook: *Mathematical Statistics and Data Analysis* by John A. Rice.

2018–2019   **Real Analysis**, *Fall Semester*.
Textbook: *Principles of Mathematical Analysis* by Walter Rudin.

2018–2019   **Ordinary Differential Equations**, *Spring Semester*.
Textbook: *Elementary Differential Equations and Boundary Value Problems* by Boyce & Diprima.

2018–2019   **Complex Analysis**, *Spring Semester*.
Textbook: *Complex Analysis* by Stein & Shakarchi.

2018–2019   **Abstract Algebra**, *Spring Semester*.
Textbook: *Abstract Algebra* by Dummit & Foote.

2019–2020   **Pritial Differential Equation**, *Fall Semester*.
Textbook: Prof. Tao Tang and Xuefeng Wang's course notes.

2019–2020   **Algebra(Graduate)**, *Fall Semester*.
Textbook:*Algebra* by Hungerford(GTM73).

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2019–2020	**Theory of Real Variable Functions**, *Fall Semester*.	
	Textbook:*Real Analysis* by Stein.	
2019–2020	**Topology**, *Fall Semester*.	
	Textbook:*Topology* by Munkres.	
2019–2020	**Mathematical Communications in English(Graduate)**, *Fall Semester*.	
	A graduate course for training writing and speaking skills in English.	

This Semester

2019–2020	**Commutative Algebra(Graduate)**, *Spring Semester*.
	Textbook:*Commutative Algebra* by Atiyah & Macdonald
2019–2020	**Algebraic Topology(Graduate)**, *Spring Semester*.
	Textbook:*Algebraic Topology* by Hatcher.
2019–2020	**Differential Geometry**, *Spring Semester*.
	Textbook: *Differential Geometry of Curves & Surfaces* by Do Carmo
2019–2020	**Algebraic Geometry(Graduate)**, *Spring Semester*.
	Textbook:*Algebraic Geometry* by Hartshorne(GTM52).
2019–2020	**Audit: Differential Manifolds(Graduate)**, *Spring Semester*.
	Textbook:*A Short Course in Differential Topology* by Dundas.

Languages

Mandarin	Mother Tongue	*Taught by my mother*
English	TOEFL: 102=R29+L28+S22+W23	*12 years of school education*
Japanese	Fundamental reading/listening, cannot speak/write	*Learned by watching anime*
French	Beginner	*Taken a bigenner level course*

Computer skills

Java	Taken a course for a semester	C/C++	Taken a course for a semester
LaTeX	Fluent user with help of Google	Linux	A little experience
Python	Beginner	MATLAB	Beginner

Math Knowledge Learned/Learning by Myself

2018–2019	**Analysis on Manifolds**, *Fall Semester*.
	Chapter 1-6 of Munkres' book.
2018–2019	**Analytical Number Theory**, *Fall Semester*.
	The whole book of Apostol, skipped the parts using complex analysis.
2018–2019	**Mathematical Modeling**, *Winter Vacation*.
	Participated in 2019 MCM/ICM contest.
2018–2019	**Lebesgue Measure Theory**, *Winter Vacation*.
	Read a few chapters of a thin Chinese textbook at home.
2018–2019	**Algebra**, *Spring Semester*.
	Chapter 0-2 of Hungerford's book.

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2018–2019   **Group and Symmetry**, *Spring Semester*.
Read Armstrong's book.

2018–2019   **Group Representaion**, *Spring Semester*.
Attended a weekly student seminar.

2019–2020   **Category Theory**, *Fall Semester*.
Attended a weekly student seminar.

2019–2020   **Homological Algebra**, *Spring Semester*.
Organizing a weekly student seminar.