Jiawei **Zhan**

CONDENSED MATTER PHYSICS · APPLIED PHYSICS

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"Make the change that you want to see in the world."

Education

USTC(University of Science and Technology of China) *Hefei, Anhui , P.R.China*
B.S. IN CONDENSED MATTER PHYSICS, APPLIED PHYSICS *Dec. 2016 - PRESENT*

- **GPA:** 3.56/4.3 (Average Score:85.66/100)
- **Core Courses:** Equations of Mathematical Physics A(91), Atomic Physics(97), Physics for Scientists and Engineers: Electrodynamics, Optics, and Special Relativity(A+ UCLA), Function of Complex Variable A (85), Probability Theory and Mathematical Statistics(92), Optics(85), Theoretical Mechanics A(95),Calculus for Functions of Several Variables(95), Linear Algebra B1(90), Thermal Physics(90), Electromagnetism A(87), Calculus for Functions of a Single Variable(87)

Skills

Programming	Python, C/C++, Matlab, Mathmatica, LaTeX
Software:	VASP, VESTA, Scidavis, Mathmatica, Matlab, Vim
Languages	Fluent English, Native Chinese
Standard English Test:	**TOFEL:** 86(Reading 26, Listening 19, Speaking 19, Writing 22)
Hobby	Soccer: One member of school team, Piano: Amateur Level 10

Experience

Summer Internship, Institute of Software, Chinese Academy of Science *Haidian District, Beijing, China*
Project: DYNAMICS INDEX UPDATE OF MOVING TAXI *Supervisor:* PROF.LIMIN GUO *Jul. 2017 - Aug. 2017*

- Constructed the program in a more hierarchical and regional way, concerning about the giant amount of data, time and energy consumption. Divided different data into different groups based on its process in order to decrease the amount of traversing all the data. Simultaneously, constructed the database in a tree form, hierarchizing all the data from root to leaves, so that the consumption of time and energy would dramatically decrease.
- Established the foundation of Bitmap indexing technique by changing a giant amount of two dimensional taxis' positional messages into one dimensional data in a grid and attaching a doubly linked list to each cell in order to simplify the traversing and updating(inserting and deleting) the data in the grid.
- Used Binary heap to hierarchize the data which could pop out the target data with its own automatic shift.

Summer School,University of California, Los Angeles *LA, U.S.A*
*Experience:*TAKING CREDIT CLASSES *Supervisor:* DR. MENACHEKANIAN PROF. FIORESI *Jun. 2018 - Aug. 2018*

- Took the Summer school in UCLA and took two credit classes there: Physics for Scientists and Engineers: Electrodynamics, Optics, and Special Relativity(A+), Calculus of Several Varieties(200/200).
- Got acquaintance with lots of prestigious professors and intelligient students. Deeply communicated with instructors about my short-term and long-term goals.
- Visited top-class labs on campus, and assisted one of my classmate guiding freshmen during their orientation

Extracurricular Activity

Fifth Class of Physics Department, 2016 *USTC, China*
VICE-MONITOR *Sep. 2017 - PRESENT*

- Hold different kinds of activities in the wish of consolidating students' safety consciousness.
- Did presentations to exhibit highlights of our class in a whole school year, which contributed to the final award of Excellent Classes of the Year in both 2017 and 2018.
- Made announcements, Recorded attendance.

Soccer Team of Physics Department *USTC, China*
OUTSIDE LEFT *Sep. 2016 - PRESENT*

- Gathered together with teammates every weekend and fought with other college teams

Selected Honors & Awards

2018	**Bronze Award**, Outstanding Student Scholarship, USTC	*Hefei, Anhui, China*
2017	**4nd Prize**, Champion Cup(Soccer Competition for College Teams)	*Hefei, Anhui, China*
2016	**2nd Award**, Eagle Cup(Soccer Competition for Freshmen)	*Hefei, Anhui, China*
2016	**2rd Award**, 30th Chinese Mathmatical Olympiad	*Sichuan, China*