王杰，男，四川人，2001 年毕业于北大化学系，2000 年获美国加州州立大学录取通知书，并获全额奖学金，赴美攻读化学 Ph.D. 学位。

Personal Statement

After accomplishing high school with brilliant record, I fought my way out of millions of candidates into Peking University. In the challenging surrounding of China's most rigorous and vigorous institution, I thought about my life seriously. " What do you really want to be? To be a mediocre person living with ease? Or to be an aspiring young man striving for a better tomorrow?" I chose the latter.

Academic background

"You are an atom vibrating among the three energy levels: study areas, libraries and laboratories." Sometimes my friends kid. I laughed. "Oh, that's because I am in love, in love with science." It is my intense interest in science that spurred me to study in such an arduous way. The inspiration to discover something new, something that would always be true permanently ignited a sense of awe in me. Chemistry, physics, biology and even literature and psychology, I was widely exposed to all kinds of arts and science like a duck to water.

My dedication paid off. Because of my outstanding academic performance, I was soon selected to the Honor Science Program of Peking University, a well-respected elite community composed of excellent students with divergent backgrounds. I was very lucky

to have the chance of exchanging ideas and competing with students from over ten departments in this program. During the past three years, I deepened my knowledge in mathematics, physics, computer science and English. I also learned the fundamentals of biology and geology. But what's the most important is that I developed my ability of independent research and thinking in this highly competitive environment. Despite all the difficulties, I felt very proud to see myself be ranked among the few students who have won the Young Eagle Scholarship for three successive years.

Research Experience

To my belief, chemistry is mostly an experimental science. Thus I put great emphasis upon laboratory experience. Since my first year in Peking University I have received a systematic training to develop my experimental skill. Up to now, I have already taken more than 300 hours of laboratory work including inorganic, organic, analytical, physical chemistry and chemical engineering. I was no doubt one of the most effective and creative students in my class, considering the accolades I won during these courses.

In 1999, I worked as a research assistant of Prof. Wang Wenqing, a celebrated physical chemistry professor, in her study of the parity-violating electroweak neutral current and homochirality of life. We conjecture that the parity-violating energy difference is the main force underlying the observed homochirality of life. And we tried to use some sophisticated experiments to detect the amplified difference in single crystals of D/L-alanine at the phase transition temperature.

About two months ago, I embarked on an independent research under the direction of Professor Yi Min and Dr. Ren Jing. Several crosslinking hydrogels and interpenetrating polymer networks

(IPN) formed by gamma rays and UV are investigated in my research. Those with electron charges on their backbone chains, also called polyeledtrolyte, especially captured my interest. The current systems being studied includes DADMAC (diallyldimethylammonium)-KC (Kappar-Carrageenn), DAMAC-NIPAAM (N-isopropylacrylamide) and DADMAC-AA(acrylic acid). By regulating process parameters such as radiation dose, dose rate, concentration and mole fraction of monomers, I studied the properties of these materials in different conditions. One goal is to improve the gels' wet strength while remaining their significant swelling ability. And the other is to find new stimuli-sensitive hydrogels. Thus more medical application for such gels can be discovered. A thesis on this topic is in progress and will be completed by Jan. 2001.

These research experiences bestowed on me expertise in a variety of research methods and facilities because I had the opportunity to work with many excellent scholars and was able to deal with instruments like AMR, AAS, UV-VIS and HPLC. I also learned the way to cooperate efficiently with others. and what is more important, it was the first time in my life that I had realized the true meaning of being an INDEPENTDENT RESEARCHER. The feeling of being challenged by some difficulty and then beating it flat gave me the best gratification and self-confidence I'had ever enjoyed.

Goal

As I always kept myself among the upper 10% in my class, the department has recommended me as a candidate of its M.S. program, waived of the usually mandatory examinations for admission. However, after weighing all the pros and cons, I now prefer to pursue my graduate studies in the department of chemistry at UC

Davis. I believe it will provide me a better prospected career in scientific research.

The University of California is well known for its spirit of creativity, excellence of academic atmosphere and the diversity in culture. The department of chemistry at UC Davis has long been well respected for its eminent reputation. It has many outstanding scientists dedicated to research and teaching. I feel sure that UC Davis is the best place where I can grow successfully to be an expert in chemistry.

Of all the concentrations, physical chemistry and biophysical chemistry are my favorites.

Recommendation Letters

Dear Professor,

I deem it a great pleasure to recommend Mr. Wang Jie,an outstanding student in my department, for admission to your esteemed graduate program. I am his former teacher in organic chemistry courses for two semesters, so I have the opportunity to contact with him closely and assess him justly. I personally believe Mr.Wang ranks among the top 10% in terms of intelligence and personal characters when compared with other students in my class.

I first noticed Mr. Wang because he showed great aptitudes in seminars. He was always eager to present his ideals that were often very novel and creative. I remember clearly once I asked my students to design a way to synthesis a compound. Most of the students designed in a routine way the same as that on the reference book. To my surprise, Mr. Wang listed several ways and explained one by one. Many of them were really original. When I put up my questions about the mechanism of his designs, his answers were

concise and clear which showed his familiarity with this subject. This case impressed on me greatly with his critical analysis ability and his clear concepts.

Mr. Wang is a quite versatile boy with a very broad research interest. As far as I know, he loves chemistry, and his organic chemistry records were among the highest. But he does not pay all his attention to examination. In fact, he makes great efforts to extensive study in related fields. He reads a lot. Reports on new technologies, new materials, new medicine and even recent discovery of archeology are his favorites. In fact, he is one of the few excellent students in our department who are enrolled in the Honor Science Program. I am sure the interdisciplinary atmosphere of the program benefits him a lot.

Mr. Wang is also an arduous boy. Very often I saw him stay up to very late in the University Library, reading something. Sometimes, when I left the laboratory building I found him still busy with his work in the next room.

As to personal characters, Mr. Wang is very polite, generous and easygoing. He also impressed me with his optimism and confidence in face of challenge.

I strongly approve Mr. Wang's plan of pursuing a doctor's degree at your institution. And I think his outstanding performance in his undergraduate study is quite enough to persuade me to recommend him without any reservation.

Yours Sincerely,
XXX
Professor of Organic chemistry

Dear Professor,

I'm very glad to learn that Mr. Wang Jie is applying for your esteemed graduate program. Having been his former teacher and advisor for almost two years, I am well aware of Mr. Wang's academic performances and personal traits. I hope my non-reserve recommendation would be helpful to your admission.

Despite some small shortcomings, Mr. Wang is an extraordinary students, one who displayed his remarkable talents in independent scientific research and excellent acquisition of knowledge after he was admitted to our department. In my opinion, he excelled most of his classmates both in academic record and in intellectual potential.

Last year, he selected my course the Chemical Evolution and the Origin of Life, an introduction course to my current research in chemical physics. Since it involved the knowledge of advanced chemistry and physics, many students found it hard to digest. However, Mr. Wang learned with great interest. Not only did he ask me a lot of questions more advanced than the level of the course, but also he phoned me after class in order to get some additional materials to read. In fact, his questions often seemed to be so critical that I had no doubt about his solid theoretical background and the ability to grasp the essence of my lecture immediately. Not surprisingly, he got 100% at the end of the semester, the highest score in my 60-students class. I was deeply impressed by his aptitudes.

After that I was very pleased to accept Mr. Wang as my research assistant. Again in his work, he impressed me with his industry, inquisitiveness and courtesy. At first, it seemed that he lacked the enough maturity and familiarity with facilities in his work. But he took great efforts to catch up with and was soon highly praised by others for his dedications. After all, I am sure

junior then while all other assistants were graduate students.

Working closely with him, I found, beyond his high intellect and assiduity, a pleasant personality. He is entirely conscientious for his work, modest yet not humble, confident yet not complacent. His outgoing personality made him communicate and cooperate very well with others. I really enjoy working with this youthful and promising student.

Moreover, His proficiency in English is also worthy of mention. To my knowledge, he has no difficulty in reading literatures written in English. What´s more, his oral English is so good compared with his classmates that he can communicate with foreign students freely.

I understand that the graduate admission of your University is one the most competitive in the world. Nevertheless, In view of all that I know of this nice boy, I believe Mr. Wang is truly exceptional among his peers. So I can assure you that he is well prepared without hesitation and reservation. If you have any question about Mr. Wang in your admission, I would be very glad to offer you my help.

Sincerely yours,
XXX
Professor of Peking University

Dear Sir or Madam,

Mr. Wang wishes to continue his further study in your institution. At his request, I am very glad to write this letter as his reference.

As a matter of fact, it was only three months ago that I got acquainted with Mr. Wang, but his performance is really very good during this period which is enough to persuade me to write this letter without hesitation.

Mr. Wang is an undergraduate student in my course of Material Chemistry. As he had great interest in polymer chemistry, I accepted him as a member of my group. For a month, he worked as a research assistant of Dr. Ren Jing of orientation. In this course, he cooperated with Dr. Ren Jing very well and showed very high aptitude in his work. His ideas are creative while his experiment skill is very good. He has designed a sample of orthodoxy table to cut down our workload in measuring hydrogel properties. It has worked well until now. Friendly, humorous and bright, he was complimented by everyone in my group soon after he joined us.

Now Mr. Wang is conducting an independent research in the properties of stimuli-sensitive hydrogels. As his mentor, I was deeply impressed by his initiative and efficiency. He started his work from the very beginning of synthesis and then projected every step of his experiment carefully. With limited reference to others he is making advance quickly by himself. Due to his hardworking and efficiency, a paper on this topic is expected to be published at the end of this semester. I should say that he exhibited a very solid chemistry background and real originality when looking into his work. I can probably rank him among the best undergraduate students in my department as his academic performance is concerned.

So, judging by what I know of him, I feel strongly that Mr. Wang will be a productive researcher in the future. I hereby give my recommendation without reservations. Should you have further

questions about him, please do not hesitate to contact me.

Yours sincerely,
XXX
Professor of Chemistry
Peking University

Resume

Goal

- To pursue a Ph.D. degree in the Chemistry program at UC Davis

Personal Data

- Name: Wang Jie
- Sex: Male
- Major:XXX Applied Chemistry
- Marital Status: Single
- Citizenship: P.R.China
- Birthday: 04/01/1979
- Degree Expected: B.S. OF Peking University

Education

- 09/1997—07/2001: Honor Science Program of Peking University Department of Technical Physics at Peking University
- 09/1994—07/1997: Shuangliu High School of Sichuan Province, China

Honors

- Privilege to enter the graduate program at Peking University, waived of the usually mandatory admission test

- Young Eagle scholarship for three successive years (1998–2000)

Research Experience

- 09/1999—07/ 2000
  Working as a research assistant of Professor Wenqing Wang in her study of The Homochirality of Life.
- 09/2000—present
  working in the group of Professor Yi Min in the study of hydrogel.

Working Experience

- 03/1997—07/2000
  Working as a part time family tutor for three high school students, mainly teaching English, mathematics, chemistry and physics.
- 10/1998—05/2000
  Working as a part time English—Chinese translator for several companies and academic organizations.

Standard Tests

- TOEFL: 640, taken on 05/13/2000
- TWE: 5.0, taken on 05/13/2000
- GRE Genearl: 2230 (V:650 92%, Q800 99%, A:780 98%), taken on 11/02/1999
- GRE Subject(Chemistry): Taken on 11/04/2000 (The score will be available in December)

Language Ability

- Chinese: Mother tongue
- English: Professional
- Japanese: Fair

Computer Familarity

- Languages: Familiar with Cortran, Basic and ASM
- Softwares: Familiar with Word, Excel, PowerPoint, Outlook, IE, Origin, and Chemwin etc.

My Motto

- Never to be mediocre.

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P.R.China

Daytime Telephone
86-10-62763037

Email Address
Vangofh@Yahoo.com

Signaure: XXX

Date: XXX

赵明，男，北京人，2001 年毕业于清华大学化工系，2001 年申请美国留学，2001 年拿到美国加州大学洛杉矶分校的录取通知书，并获全额奖学金，赴美攻读化学工程专业 PH.D. 学位。

加州大学洛杉矶分校简介

加州大学洛杉矶分校坐落在加州的洛杉矶，建于 1919 年，是一所大型综合性大学，全美排名前 10 名，致力于本科生和研究生教育研究和公共服务。该校具有优异的学术成就，很多项目位居全美前列，其中一些已经达到世界最先进水平。

加州大学洛杉矶分校包括 11 所学术和职业服务学院，163 座建筑，约 36,500 名学生。其专业学科几乎涉及到各个领域，里面有一半以上具有硕士和博士授予权，其中航空工程、植物学、化学、土木工程、计算机科学、地球科学、电气工程、英语、法语、德语、微生物学、音乐、统计学、动物学等学科在全美大学相应学科领域排名中都居于前 20 名。如此众多的学科专业使加州大学洛杉矶分校每年能为美国乃至全世界培养大量的优秀人才，同时也使之成为一所卓有成就的高等学府。

加州大学洛杉矶分校化学工程系始建于 1944 年。现包括 65 名研究生，其中 2/3 在读博士学位。大多数研究生通过助教或助研获得助学金或奖学金。化工系以其对污染防治和环境化工的深入研究和骄人的成绩享誉全美。

学校地址：

University of California，Los Angeles
405 Hilgard Avenue, Los Angeles, CA 90095
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Admissions E-mail: ugadm@saonct.ucla.edu
Web site: http://www.ucla.edu/

Best Engineering Programs and Departments (with Ph.D. Programs)
Engineering program rank: 22
Aerospace engineering rank: 15
Computer science rank: 18
Electrical engineering rank: 17
Environmental engineering rank: 16

Personal Statement

I grew up in XXX, a city famous for chemical engineering in northeast China. However, the XXX Chemical Plant has caused severe pollution in this once beautiful city. Some of my relatives work in the plant, and most of them have suffered from the poisonous air. My grandpa, for instance, died early of lung cancer. Losing a relative should have been enough to repel me, but instead it inspired me an unshakable commitment to improving chemical engineering methods to protect the environment.

As a child, I saw how dangerous and harmful working with chemicals was for humans and I thought that robots should replace the human workers. Thus, I devoted myself to the study of both chemistry and computer science. To maximize the time needed to study these subjects, I finished all of my required courses for high school in one year. In the following two years, I directed my own studies, focusing all of my spare time to master these two subjects. Even a few weeks before the highly competitive National Entrance Examination was held, while my classmates were preparing for the test, I continued my studies of Chemistry and Computer Science. In the end, my hard work was well rewarded, I received top scores in Chemistry and later, I was admitted to the Department of Chemical Engineering at Tsinghua University, which is regarded

as the MIT of China.

Here at Tsinghua, solving the problem of pollution through the marriage of chemical engineering and computer science, remains my aim. This is why, in my freshman year, I refused the chance to pursue an MBA or Computer Science degree in Singapore. Tsinghua afforded me the opportunity to enjoy the pleasures and contentment from knowing a subject in depth and contributing to it through my own efforts. In my spare time, I worked as a TA, assisting my professor by making preparations for experiments, as well as served as the administrator of our dorm building's computer network system.

Aware of the limits of book knowledge, I actively sought out real life work experience. In Shannxi, for instance, as an intern I had the chance to work closely with Professor Wang Xingzhi of the Chinese Academy of Engineering, whom I have kept in contact with for the past two years. His field of research was Automation and I gained research and analytic skills assisting on the automatic project. Aware of my ambitions, he gave me a lot of favorable advice and suggestions. Working with him, I learned how to analyze a problem from all its different aspects and that "doubt is the key to knowledge."These words helped me develop my creativity and pushed me seek out answers to the more complicated questions. But Professor Wang's most important gift was encouragement; through working with him I became more confident and determined to realize my dream. He often reminded me that, "Action is the fruit of knowledge" by which he meant that practice is an indispensable ladder and foundation to build from.

As far as I am concerned, broadening my vision and scope of knowledge beyond books and test scores is essential for my

purpose. Reading literature, watching movies and listening to music and dancing are just a few of my hobbies. I also play all kinds of sports and especially like to swim. Last year, I won the 5th place in our schools butterfly race. To further develop myself, I volunteered in the Student Union and this year was elected as Class Monitor. I initiated many student activities including picnics, an English Party, and several academic lectures. By doing so, I won recognition from my classmates and cultivated important diplomatic and interpersonal skills. This year, I was also voted by my advisors and peers as the second most creative, honest, and team spirited person in my class.

Once again, I have chosen the more challenging path and turned down Tsinghua's offer to study at the graduate school, without taking the entrance examination. I am determined to find the best place to make my dreams come true. The CHE Department of UCLA has established an international reputation for energy and environmental research. Your department also has strong interactions and collaborative research projects with the Computer and Information Technology Institute.

My hope is that future generations will be spared from the tragic and devastating losses that I have experienced because of environmental pollution. I am grateful for your favorable consideration for admission and financial aid.

Recommendation Letters

Dear professors:

I consider it great pleasure to write this letter of recommendation for Mr. Zhao, one of my best students, to support his application to your University.

I became acquainted with Mr. Zhao, when he enrolled in

the class of "Optimization Techniques in Chemical Engineering" in 1999. In the course, he distinguished himself by the quality of his research and analytical ability. I still remember clearly his term paper, "Usages of Computer in Optimization Techniques", for which he had made an original and extensive research. It was one of the best term papers I had ever seen. The paper showed his concrete knowledge of both computer and chemistry, and the creativity as well. In class discussions, he was one of the most inquisitive and initiative students. His remarks indicated an excellent ability of expressing himself efficiently, and thinking independently and creatively.

What surprised me most was the highest score (95 out of 100) he achieved in the course in the final exam, which was far ahead of his peers. As far as I could remember, the exam was not only hard but also long which required highly analytical abilities and a quick mind. Actually, many excellent students failed to get the score beyond 80, while Mr. Zhao gave almost perfect answers only that he failed to solve the last and the hardest one. In this sense, although I take caution to evaluate a student solely by his or her grade, I would like to emphasize his excellent performance in my course. According to my knowledge of him, I believe he can do better and better in his future academic career with his extensive, solid background, outstanding calculating talent and strong comprehension ability.

Therefore, I recommend Mr. Zhao without reservation, and I will appreciate your favorable consideration very much.

Sincerely yours,
XXX
Professon of Tsinghua University

Dir Sir or Madam:

It is my great pleasure to recommend Mr. Zhao , one of my best students, as a worthy candidate for admission to your esteemed university for further study.

As Chairman of Chemical Engineering Department and the teacher of Mr. Zhao, I have known him ever since he first came to Tsinghua University. Being an outstanding student in his class, he got the highest mark in his class (30 people) in English and won the chance to study Computer Science or MBA in Singapore, the city that a lot of Chinese students earnestly long for to go to. To my surprise, he declined the chance. After talking with him, I knew his dream was to link Chemistry and Computer together. He gave me an interesting figuration that Chemistry and Computer are the two legs of the body of Chemical Engineering. He talked about quite a few original views, and some of them even inspired my new ideas. So, initially he impressed me with his senses and creativity.

And during the past three years, he also showed his talent in grasping fundamental principles and theories. He always studied conscientiously and tried to absorb as much knowledge and new ideas as possible. I find that he has instinct intellectual potential as well as diligence. In recognition of his achievement, he has been awarded several honors available only to the country's brightest young people. During the same time, he has ranked 2 in his class (30 people) in the evaluation of creativity, teamwork, honesty and health.

The knowledge from the class of our department seems not to fully satisfy this guy's academic curiosity. He often audits the class of Department of Computer Science and Automatization. He has grown habit on reading scientific journals, such as Nature, Science. He also obtains knowledge and new concepts from attending