

## **Introduction to School of the Environment**

School of the Environment in Jiangsu University (JU) was established in 2006 that was derived from a previous college of biology and environmental engineering in JU. There are 70 employed faculty and staffs in this college that include 10 graduate faculty professors for Ph.D. degree and more than 15 graduate faculties for MS degree. In addition to the full time faculty, more than 10 distinguished adjunct professors from various countries are also hired to take part in a variety of jointing research projects and teaching activities. Currently, there are eight professional divisions/departments in this college, which have indeed covered the majority of environmental fields and the relevant challenges: Environmental Engineering Institute, Biofuels Institute, Center of the Safety Engineering, Institute of Marine Resource and Environment, Department of Environmental Science, Department of Environmental Engineering, Department of Safety Engineering, and the Comprehensive Laboratory Center. At present, the college provides two bachelor degree majors, one for environmental science and engineering and the other for safety engineering, where the environmental science/engineering is the one to be recognized as a unique major with the scientific strength in Jiangsu province. For graduate degree study, the college also provides various graduate level degrees that include M.S. degree majored in the fields of Environmental Science and Ph.D. degree majored in the fields of Environmental Science and Engineering that has been expanded to six different graduate programs. Along with many years' efforts, the college has been recognized as one of the best and esteemed universities in the field of environmental science and engineering in China. Five unique research laboratories in School of the Environment at JU have been well established in the past decade, which include Environmental Engineering, Environmental Chemistry, Biomass Utilization for Fuels and Chemicals, Environmental Biology and Ecology, as well as Safety Engineering. Thus, the research interests derived from these five laboratories are mainly focused on the following directions, but not limited to: 1) Agro-environmental ecology and its protection, 2) Quality of the water environment and its management, 3) Water processing and the relevant equipment development, 4) Environmental chemistry and the novel materials for environmental protection, 5) Biological conversion of biomass for biofuels and chemicals, and 6) Hazard material control and its management.

As one of the important advantages for graduate students studying in this college, the academic and teaching activity in the college are also tightly linked to many other esteemed universities or institutions both from various domestic and international regions as well. Currently, the college has established a long term of the cooperative relationships with a number of universities and organizations in the world, such as with Washington State University (USA), Texas A & M University (USA), University of Georgia (USA), University of Rochester (USA), Mississippi State University (USA), University of Leeds (UK), Mie University (Japan), Kyoto University (Japan), Tohoku University (Japan), University of Tsukuba (Japan), Guplph University (Canada), and University of Ottawa (Canada), etc. Various international student exchange programs in the college have also been carried out for a number of universities in the world. Every year, there are many oversea and domestic scholars and experts visiting the college and deliver seminars/workshops in the areas of environmental sciences, bioengineering, water processing, and many other relevant disciplines as well.

# **Ph.D. degree Programs in Environmental Science and Engineering**

## ***I. Admission***

School of the Environment at JU offers graduate students a wide range of classroom experiences, field research opportunities, and interactions with decision makers facing real-world environmental challenges; and we also provides the opportunities for graduate students who intend to pursue a professional degree in Ph.D. degree. The faculty in this school are committed to the holistic development of the next generation of environmental leaders in academia, business, public agencies, and non-governmental organizations (NGO's).

For a successful applicant who intends to study at School of the Environment for Ph.D. degree at JU, he/she should satisfy the following requirements:

- M. S. degree in the field of environmental science/engineering, or the relevant disciplines, such as Microbiology, Chemistry, Ecology, Bioengineering, etc., from an accredited university.
- The transcripts from all accredited universities attended verifying and documenting graduation with GPA at least 3.0.
- Two recommendation references to support your application from persons who know you well in your professional career.
- English capability to meet the minimum requirements for a degree study at JU, including the skills in reading, oral communication, as well as writing, is also required.
- Meet other university's admission requirements (Surf on <http://oec.ujs.edu.cn/pub/eng/Admission/ChoosingAProgram/DegreeProgram/>).

## ***II. Advisory Committee and supervisory***

The Ph.D. students should be directed by a qualified major supervisor (Ph.D. graduate faculty), as well as a committee panel containing several qualified co-advisors/committee members. The Advisory Committee initially consists of at least 4 members of the Graduate Faculty, including the *Major Advisor*, who acts as the chair. At least 2 members must be from the School of the Environment, with at least 1 of these being a full member of the Graduate Faculty. The remaining 2 members may be from School of Environment or another college, with 1 being a full member of the Graduate Faculty. If the student declares a minor, 1 committee member must be from the minor department. The committee should be established by the end of the second semester of the student's graduate career.

## ***III. Duration of Study and Credit Requirements***

A Ph.D. candidate should submit his/her dissertation for defense within 3-5 years after initiating a Ph. D program. The students should finish the required course credits that must be at least a total of 15 credits. Moreover, every student is also required to commit several presentations/lectures that are closely relevant to his/her research project, attend academic conferences/workshops for at least 15 times, which will be counted for 3 credits of this seminar course. In addition, the required course credits can be added beyond the total required course credits if that is necessary in terms of your knowledge background and the research project in which you will involve.

## ***IV. Dissertation Research Proposal and Program of Study Review***

All graduate students are required to initiate their dissertation study project prior to the end of the second semester. The medium-term examination for dissertation project is generally scheduled in the fourth semester. Other following schedules relevant to your graduate study could be found from the Overseas Education College (OEC) at Jiangsu University.

By the end of the first year, students are required to have a research proposal and program of study accepted by his/her *Graduate Advisory Committee*. A list of completed courses and those proposed to meet school requirements should also be prepared. Please see the GUIDE FOR THESES AND DISSERTATION RESEARCH PROPOSAL AND PLAN OF STUDY in Appendix of this file. A meeting of the Advisory Committee should be convened by the student to discuss their proposal and course work.

### ***V. Dissertation and Publication Requirements***

Every graduate student is required to publish at least two research papers in the relevant SCI/EI journals prior to being eligible to apply a dissertation defense. The dissertation must demonstrate a mastery of research techniques, ability to perform original and independent research, and skill in formulating conclusions that enlarge upon or modify accepted ideas.

### ***VI. Ph.D. programs in Environmental Science and Engineering***

- Environmental Ecology and Environmental Remediation
- Environmental Chemistry and Novel Materials applied for Environmental Protection
- Bioenergy and Biomass Utilization for Fuels and Chemicals
- Monitoring and Controlling Technologies Applied for Environment Protection
- Equipment Advancement for Pollution Control
- Ago-environment Protection

### ***VII. Credits and Course Work***

<b>Fundamental and Required Courses</b>	<b>Credits</b>
Overview of Chinese Culture	3
Chinese	4
Modern Statistics	2
<b>Core courses*</b>	<b>Credits</b>
Advanced environmental ecology	2
Advanced environmental monitoring technology	2
Advanced environmental microbiology and engineering	2
Advanced oxidation engineering	2
Advanced biotechnology in environmental science	2

\* *select at least 2 of the listed courses*

<b>Elective courses*</b>	<b>Credits</b>
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Plasma theory	2
Numerical simulation in environmental science and engineering	2
Hydrodynamics in environmental engineering	2
Environmental safety	2
Environmental remediation technology	2
Environmental protection and renewable energy	2
Environmental chemistry	2
Global environment challenges	2

*\* The listed courses can be selected in terms of the requirements from your major advisor.*

### ***VIII. Financial assistance***

Applicants from a foreign country can apply a variety of Chinese government scholarship that may fully or partially support your degree study at JU. For further information regarding these scholarships supplied from Chinese government, you can surf on the website of Overseas Education College (OEC), JU, at <http://oec.ujs.edu.cn/pub/eng/Scholarship/GS/>. In addition to apply these funding supports, school of the Environment in JU also provides a financial assistance for each enrolled graduate student at least 3000 Yuan a year for PhD graduate students, with which the total amount of the funding assistance may be possibly updated, depending on the funding availability from a professor's grants, as well as your performance in academic research.

## **M.S. Degree Programs in Environmental Science**

### ***I. Admission Requirements***

School of Environment at IU offers a variety of graduate programs to those students who pursue a master degree (M.S.) in Environmental Science. Our fundamental goal is to improve the student's ability to initiate and carry out a novel research project in the areas relevant to environmental science. Thus, the research programs of the school are currently focused on the major of environmental science only. To be a qualified applicant enrolling in a Master of Science program in Environmental Science, a student must provide:

- A bachelor degree in Environmental Science or in the relevant fields/majors, such as Microbiology, Chemistry, Ecology, Bioengineering, etc., from an accredited university with a transcript at least 3.0 of the GPA.
- Two recommendation references to support your application from persons who know you well in your professional career.
- English capability to meet the minimum requirements for a degree study at JU, including the skills in reading, oral communication, as well as writing, is also required.
- Meet other university's admission requirements.

( Surf on <http://oec.ujs.edu.cn/pub/eng/Admission/ChoosingAProgram/DegreeProgram/>).

### ***II. Credit Hour Requirements***

The graduate students for environmental science major are required to accomplish at least 30 course credits, where 26 credits are earned from the courses you will take, 2 credits are counted from the seminar course, and the final 2 credits are generally offered from your thesis study.

### ***III. Thesis Research Proposal and Examination***

Graduate students are required to initiate their thesis study projects prior to the end of the second semester. The medium-term examination for thesis study is scheduled in the fourth semester. Other following important schedules relevant to your graduate study could be found from the Overseas Education College (OEC) at Jiangsu University. In general, a Master's student is required to have a research proposal and a plan of study accepted by his or her Graduate Advisory Committee by the end of the second semester of study. A list of completed courses and those proposed to meet school requirements should also be prepared. Please see the GUIDE FOR THESES AND DISSERTATION RESEARCH PROPOSAL AND PLAN OF STUDY in Appendix of this file. A meeting of the Advisory Committee should be convened by the student to discuss his/her proposal and course work.

### ***IV. Thesis and Publication Requirement***

Every graduate student is required to publish at least one research paper in a relevant SCI/EI journal prior to being eligible to apply a dissertation defense. The thesis must demonstrate a mastery of research techniques, ability to perform original and independent research, and skill in formulating conclusions that enlarge upon or modify accepted ideas.

### ***V. Available M. S. programs for Environmental Science***

- Environmental Chemistry
- Environmental Biology
- Environmental Ecology
- Bioenergy and Biomass Utilization for Fuels and Chemicals
- Monitoring and Controlling Technologies Applied for Environment Protection
- Environmental Planning and its Management
- Environmental Toxicology

### ***V. Credits and Course Work***

<b>Required Courses</b>	<b>Credits</b>
Overview of Chinese Culture	3
Chinese	6
Statistics	4
<b>Core courses*</b>	<b>Credits</b>
Modern Environmental biology	2
Advanced Environmental Chemistry	2
Green oxidation technology	2

Environmental molecular biology	2
Environmental microbiology	2
Environmental ecology	2
Biotechnology in environmental science	2

*\* select at least 3 of the listed courses*

<b>Elective courses*</b>	<b>Credits</b>
Modern environmental analytical chemistry	2
Bio- and eco-remediation technology	2
Global environment challenges	2
Environmental ethics	2
Ecosystem biology	2
History of environmental thoughts	2
Conservation biology	2

*\* The listed courses can be selected in terms of the requirements from your major advisor.*

## ***VI. Financial assistance***

Applicants from a foreign country can apply a variety of Chinese government scholarship that may fully or partially support your degree study at JU. For further information regarding these scholarships provided by Chinese government, you can surf on the website of Overseas Education College (OEC), JU, at <http://oec.ujs.edu.cn/pub/eng/Scholarship/GS/>. In addition to apply these funding supports, school of the Environment of JU also provide a financial assistance for each enrolled graduate student at least 2000 Yuan a year for Master graduate students, with which the total amount of the funding assistance may be possibly enhanced, depending on the funding availability from a professor's grants, as well as your performance in academic research.

## Graduate Faculty in Environmental Science and Engineering

### **Xiang-Yang Wu, Ph.D.**

Dean, School of the Environment

Professor, Graduate faculty for Ph.D. and M.S. students



#### **Education background**

Ph.D., Processing and Storage of Agricultural Products, Jiangsu University, P. R. China, 2005

M.S. Physical Chemistry, Nanjing University, P. R. China, 1989

B. S., Chemical education, Nanjing Normal University, P. R. China, 1986

#### **Working Experience**

1989-present, associate professor/professor, Jiangsu University, P. R. China

#### **Research interests**

- Environmental chemistry and Novel Materials applied for Environmental Protection
- Monitoring and Controlling Technologies Applied for Environment Protection
- Green oxidation technology
- Bioenergy and Biomass Utilization for Fuels and Chemicals

#### **Contact**

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### **Jianzhong Sun, Ph.D.**

Distinguished Professor, Graduate faculty for Ph.D. and M.S. students

Director, Biofuels Institute of Jiangsu University, P. R. China

Vice dean, School of the Environment, Jiangsu University, P. R. China

Adjunct Professor, Dept. of Biological Systems Engineering, Washington State University, USA



#### **Education background**

Ph.D. Major: Entomology/minor: Statistics/microbiology, Louisiana State University, USA, 2002

M.S., Entomology/Ecology, Nanjing Agricultural University, P. R. China, 1985

B.S., Plant Protection, Nanjing Agricultural University, P. R. China, 1982

#### **Working Experience**

2009–Present, Distinguished professor, Director of Biofuels Institute of Jiangsu University, Vice Dean of School of the Environment, Zhenjiang, 212013, Jiangsu, P. R. China, Adjunct Professor in Dept. of Biological Systems Engineering, Washington State University, USA

2004 – 2009, Assistant/associate professor, Costal Research and Extension Center, Mississippi State University and Graduate faculty of Ph.D. student, Dept. of Entomology and Plant Pathology of Mississippi State University, Mississippi, USA

2002 – 2003, Postdoctoral associate at Department of Entomology, Louisiana State University, USA

1998 – 2002, Ph. D. student at the Dept. of Entomology of Louisiana State University, Louisiana, USA

1996 – 1997, Visiting scholar at the Dept of Entomology of Louisiana State University, Louisiana, USA

1992 – 1996, Associate professor in Jiangsu Academy of Agricultural Sciences (JAAS), Nanjing, P. R. China.

1991 – 1992, Visiting scholar in Dept. of Entomology, Auburn University, Alabama, USA

1985 – 1991, Assistant professor in Jiangsu Academy of Agricultural Sciences, Nanjing, P. R. China.

### **Research interests**

- Biological conversion of lignocellulosic biomass for fuels and chemicals.
- Advanced lignocellulolytic system development for novel bioreactors via processing bionics
- Dedicated bioenergy crop development via cell wall modification and bioengineering
- Advanced technology development for biomass-based plastics and other relevant bio-products

### **Contact**

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**Website:** <http://biofuels.ujs.edu.cn>

### **Weilan Shao, Ph.D.**

Distinguished Professor, Graduate faculty for Ph.D. and M.S. students

#### **Education background**

Ph.D., Microbiology, University of Georgia, USA, 1993

M.S., Plant pathology, Nanjing Agricultural University, 1985

B.S., Plant protection, Nanjing Agricultural University, 1982

#### **Working experience**

2012-present, Distinguished professor, Jiangsu University, China

2002-2012, Distinguished professor, Nanjing Normal University, China

2000-2002, Distinguished professor, Wuxi University of Light Industry, China

1997-1999, Research associate, Scripps Research Institute, USA

1994 -1997, Post-doc., UW, UCSD





## Research Interests

- Molecular microbiology and pathway engineering for cellulosic ethanol fermentation
- Methodology of gene cloning, expression and regulation
- Biological enzyme engineering for lignocellulose degradation

## Contact

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**Website:** <http://biofuels.uj.edu.cn>

## Daolin Du, Ph.D.

Professor, Graduate faculty for Ph.D. and M.S. students

### Education background

Ph.D., Crop genetics and breeding, Hainan University, 1999

M.S., Botany, Southwest University, 1994

B.S., Biology, Southwest University, 1991

### Working experience

2009-present, Professor, Jiangsu University, P. R. China

2005-2007, Visiting scholar, Pennsylvania State University, USA

1999-2001, Post-doc., Institute of Applied Ecology, Chinese Academy of Sciences

1994-2008, Lecturer, Associate professor, Professor, Hainan Normal University

### Research Interests

- Environmental ecology
- Invasive ecology
- Environmental restoration
- Environment toxicology and eco-toxicology
- Environment health and safety

## Contact

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## Zhong-Fei Ma, Ph.D.

Professor, Graduate faculty for Ph.D. and M.S. students

### Education background

Ph.D. in Safety Technology and Engineering, China University Of Mining and Technology, 2005



M.S. in Safety Technology and Engineering, China University Of Mining And Technology, 1992-1995

B.S. in mining, huainan mining institute, 1978-1982

### **Working experience**

2003 –Present, Professor, School of the Environment, Jiangsu University, P. R. China

1982-2002, Engineer/Senior Engineer, Xuzhou Coal Mining Group Corporation, P. R. China

### **Research Interests**

- Industrial ventilation technology
- Temperature reduction and dust control
- Control technology for dust and gas explosion
- Curing technology for natural calamity in mining industry

### **Contact**

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## **Chundu WU, Ph.D.**

Adjunct Professor, Graduate faculty for Ph.D. students

### **Education background**

Ph.D., Agricultural Engineering/Farming Machinery, Jiangsu University, P. R. China. 1993

M.S., Agricultural Engineering/Agricultural Machinery, Jiangsu University, P. R. China. 1985

B.S., Agricultural Engineering/Agricultural Machinery, Jiangsu University, P. R. China. 1982

### **Working experience**

2008- Present, President, professor, Yangzhou College of Environment and Resources, adjunct professor, School of The Environment, Jiangsu University, P. R. China

2002- 2006, Dean, professor, School of biological & environmental Engineering, Jiangsu University, P. R. China

2001- 2002, Dean, professor, School of biological & environmental Engineering, Jiangsu University of Science & Technology, P. R. China

1998- 2000, Deputy Director, professor, Department of Postgraduate Study, Jiangsu University of Science & Technology, P. R. China

1996- 1997, Deputy Director, Associate Professor, Department of Postgraduate Study, Jiangsu University of Science & Technology, P. R. China

1994- 1995, Associate Professor, School of Agricultural Machinery, Jiangsu University of Science & Technology, P. R. China

1985- 1993, Lecturer, School of Agricultural Machinery, Jiangsu Institute of Technology, P. R.



China

### **Research Interests**

- Environmental Science and Engineering, Agricultural Engineering, Ecological Engineering
- Agricultural chemical utilization with high efficiency and low pollution techniques
- Water environment treatment and ecosystem remediation technology

### **Contact**

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### **Jimin Xie, Ph.D.**

Professor, Graduate faculty for Ph.D. students

### **Education background**

Ph.D., Pharmacology, Kumamoto University, Japan, 1995

B.S., Inorganic Chemistry, Nanjing University, 1982

### **Working experience**

2001-present, Professor, Jiangsu University, P. R. China

1999-2001, Professor, Zhenjiang Medical College, P. R. China

1993-1999, Associate professor, Zhenjiang Medical College, P. R. China

1987 -1993, Lecturer, Zhenjiang Medical College, P. R. China

1982 -1987, Assistant, Zhenjiang Medical College, P. R. China

### **Research Interests**

- Treatment and application technique of waste product or waste water □
- Functional nano-materials: preparation, properties and applications.
- Preparation and application of new function complexes.
- Biological effect and test technology of environmental substances.

### **Contact**

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### **Yongsheng Yan, Ph.D.**

Professor, Graduate faculty for Ph.D. students

### **Education background**

Ph.D., Environmental Engineering, Huazhong University of Science and Technology, 2003



M.S., Analytical Chemistry, Hebei University, 1994

B.S., Chemistry Education, Jilin Normal University, 1987

### **Working experience**

2004-present, Professor, Jiangsu University, P. R. China

1997-2004, Professor, Pingdingshan University, P. R. China

1987-1997, Associate professor, Jilin Normal University, P. R. China

### **Research Interests**

- Green and chemical separation process such as Liquid-liquid extraction, aqueous two-phase solvent sublation, aqueous two-phase flotation, solid phase extraction
- Functional photocatalysts and nanosized semiconductors, selective photodegradation of environmental pollutants
- Molecular recognition and smart materials, selective adsorption and separation of environmental pollutants
- Measurement and correlation of data for adsorption and phase diagram

### **Contact**

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## **Hua-Ming Li**

Professor, Graduate faculty for Ph.D. students

### **Education background**

M. S., Chemistry, Chinese Academy of Sciences, 1992

B. S., Chemistry, China West Normal University, 1985



### **Working experience**

2004-present, Professor, College of Chemistry and Chemistry Engineering, Jiangsu University

2003-2003, Professor, College of Chemistry and Chemistry Engineering, Hainan Normal University

2000-2001, Visiting Scholar, State Key Lab for Physical Chemistry of Solid Surfaces, Xiamen University

1998-2003, Associate Professor, College of Chemistry and Chemistry Engineering, Hainan Normal University

### **Research Interests**

- Oxidative desulfurization of fuels
- Photocatalytic elimination of environmental pollutants.
- Structures and properties of nanomaterials.

- Synthesis and application of ionic liquids

### Contact

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### Liu-Qing YANG, Ph.D.

Professor, Graduate faculty for Ph.D. and M. S. students

#### Education background

Ph.D. Processing and Storage of Agricultural Products, Jiangsu University, P. R. China, 2003

M. S. Physical Chemistry, Nanjing Normal University, P. R. China, 1989

B. S. Chemical Education, Nanjing Normal University, P. R. China, 1986

#### Working Experience

1989-present, associate professor/professor, Jiangsu University, P. R. China

#### Research interests

- High efficient utilization of agricultural resources
- Environmental Chemistry
- Environment and health
- Green oxidation technology

### Contact

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### Jinyu Chu, Ph.D.

Professor, Graduate faculty for M.S. students

#### Education background

Ph.D., Environmental engineering, Jiangsu University, China, 2010

B.S., Geological professional, Xian Geological Institute, 1984

#### Working experience

2006-present, Professor, Jiangsu University, China

2000-2006, Associate professor, Jiangsu University, China

1984 -2000, Senior engineer., Anshan electrostatic technology research institute, China

#### Research Interests

- Plasma technology in environmental engineering application
- Water or air pollution control engineering



- Agro-environmental protection

## Contact

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## Wei-Hong Huang, Ph D.

Professor, Graduate faculty for M.S. students

### Education Background

Ph.D. in Chemistry, Wuhan University, P. R. China, July, 1999

M.S. in Chemistry, Wuhan University, P. R. China, July, 1996

B.S. in Chemistry, Wuhan University, P. R. China, July, 1990

### Working Experience

2006-present Professor, School of the Environment, Jiangsu University

2004-2005 Visiting scholar, University of Western Ontario, Canada

2002-2006 Associate Professor and director, College of Environmental Science and Engineering, Huazhong university of Science and Technology, P. R. China

1999-2002 Lecture, College of Environmental Science and Engineering, Huazhong university of Science and Technology, P. R. China

### Research interests

- Environmental analytical chemistry

Analysis of trace organic toxicant in environmental samples by GC, GC-MS, ICP-AES, HPLC, Fluorescence Spectrometry, especially on study of environmental sample preparation methods.

- Pollution control chemistry

Developing the portable analyzer for pesticide residue and metals in fruit and vegetable samples, as well as in environmental samples.

Advanced oxidation techniques such as photocatalysis and microwave techniques for the hard treatment industrial wastewaters.

- Environmental toxicity

## Contact

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## Cheng-wu Yi, Ph.D.

Associate Professor, Graduate faculty for M.S. students

### Education Background

Ph.D., Environmental Engineering, Jiangsu University, 2010



M.S., Traffic and Transportation Engineering, Dalian Maritime University, 2003

B.S., Computer and electronic technology, University of Science and Technology Liaoning, 1988

### **Working Experience**

2003-present, Associate Professor and director, Safety and Environmental Engineering Experiment Center, School of Environment, Jiangsu University, P. R. China

2000-2002, Senior Engineer and director, Institute of Plasma Technology, Electrostatic national environmental pollution control engineering and technical research center, P.R. China

1992-1999, Engineer and Deputy director, Plasma Technology Research Center, Anshan electrostatic technology Research and Design Institute, P. R. China

1998-1991, Assistant Engineer Plasma Technology Research Center, Anshan electrostatic technology Research and Design Institute, P. R. China

### **Research interests**

- Research on treatment of cyanobacteria, pathogenic microorganisms, cyanobacterial toxins and other organic pollutants in water with hydroxyl radical
- Research on key technologies of charged coagulation for ultra-fine dust
- Research on cleaning harmful gas by gas discharge plasma

### **Contact**

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### **Qing-Jie Xie, Ph.D.**

Associate professor, Graduate faculty for M.S. students

### **Education Background**

Ph.D. Environmental Engineering, Huazhong University of Science & Technology, P. R. China, December, 2005

M. S. Civil Engineering, Wuhan Institute of Urban Construction, P. R. China, June, 1999

B.S. Water Supply & Drainage Engineering, Hebei Institute of Architecture Engineering, P. R. China, July, 1996



### **Working Experience**

March, 2006-now, Jiangsu University (UJS), P. R. China

July, 1999-March, 2006, Huazhong University of Science & Technology, P. R. China,

### **Research Interests**

- Rainfall run-flow pollutants and its control
- Wetland geochemistry
- Environmental remediation

## Contact

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## Daochen Zhu, Ph.D.

Associate Professor, Graduate faculty for M.S. students

### Education Background

Ph.D. in Microbiology, Kobe University, Japan, 2008

M.S. in Fermentation engineering, Dalian Polytechnic University. China. 2004

B. S. in Food Science, Shandong Polytechnic University. China. 2000

### Working experience

2009-present, Associate Professor, Jiangsu University, P. R. China

2008-2009, Research Scientist, Kellogg's Co. Ltd. US A & P. R. China

### Research Interest

- Microbial degradation of lignin and unbiodegradable organic compounds
- Microbial species in extreme environment
- Microbial utilization of biomass resources for biofuel

## Contact

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## **APPENDIX**

### **GUIDE FOR THESES AND DISSERTATION RESEARCH PROPOSAL AND PLAN OF STUDY**

School of the Environment, Jiangsu University  
Zhenjiang, Jiangsu University

(Date)

**TITLE:** A brief, clear, specific designation of the subject of the research. The title, used by itself, should give a good indication of the project.

**OBJECTIVES:** A clear, complete, and logically arranged statement of specific objectives of the project. If several objectives are proposed, they must be closely related. List them as 1, 2, 3, etc.

**JUSTIFICATION:** Should present the importance of the problem.

**PREVIOUS WORK AND PRESENT OUTLOOK:** A brief summary covering pertinent previous research on the problem, citing important and recent publications from other research institutions, as well as your own institution, the status of current research, and additional information needed, to which the project is expected to contribute. This review will help to determine work already accomplished.

**PROCEDURE:** A statement of essential work plans and methods to be used to attain each of the stated objectives. The procedure should correspond with objectives, and follow the same order. Phases of the work to be undertaken should be designated. The location of work and facilities and equipment needed and available should be indicated. Wherever appropriate, procedures should provide data suitable for statistical analysis and design of the experiments should be indicated.

**PROBABLE DURATION:** An estimate of the maximum time likely to be required to complete research and publish results.

**INSTITUTIONAL UNITS INVOLVED:** List each unit of the institutions contributing essential services or facilities. Responsibilities of each should be indicated.

**LITERATURE CITED:** List important and recent publications involving this field of work.