

# Curriculum Vitae

Name: *Siyuan Deng*

## EDUCATION

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- 08/2012-12/2015 Master of Science, Tampere University of Technology, Finland ➤  
Study Program: Biomedical Engineering  
Major: Biomaterials; Minor: Plastics and Elastomers ➤  
GPA: 4.19/5.00
- 05/2014-01/2015 Erasmus Exchange Student, University of Twente, Netherlands ➤  
Study Program: Biomaterials Science and Technology ➤ Project of  
Master's Thesis
- 09/2007-06/2011 Bachelor of Engineering, Beijing University of Chemical Technology, China  
➤ Study Program: Materials Science and Engineering  
Major: Biomaterials  
➤ Major GPA: 3.61/4.33

## RESEARCH EXPERIENCES

- 05/2014-01/2015 Water-soluble Synthetic Biocompatible Polymer Support for a Neural Deep Probe  
➤ Master's thesis project  
➤ Biomaterials Science and Technology Group, University of Twente; supervised by Prof. Dirk Grijpma and Prof. Minna Kellomäki; cooperated with the Centre of Microelectronics in Provence France ➤ Grade: 4/5  
➤ The objective of this project is to study several biocompatible, water-soluble polymeric materials using as a support for a neural deep probe  
➤ Polymerization of amphipathic tri-block copolymers; characterization of composition, mechanical properties, thermal properties and solubility of polymers by <sup>1</sup>H-NMR, GPC, DSC, tensile test, in vitro dissolution test and other methods

- 02/2011-07/2011 Study of New Type Fluorine-containing Photoinitiators

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- Bachelor's thesis project  
➤ Research Centre of Photopolymerization Technology, Beijing University of Chemical Technology; supervised by Prof. Jun Nei  
➤ Grade: 95/100; Outstanding Undergraduate Thesis

- The objective of this project is to apply the low surface energy property of fluorine to synthesis two fluorine-containing photoinitiators which can migrate to the surface and effectively prevent the oxygen inhibition of photopolymerization system
- Synthesized two new type fluorine-containing photoinitiators; characterized the polymerization kinetics, oxygen inhibition and migratory aptitude of the fluorine-containing photoinitiators by UV, FITR, SEM and EDS characterization methods

#### 07/2010-01/2011 Study of Controlled-release Formulation of a Hyper-active Pesticide

- National University Student Innovation Program
- Beijing University of Chemical Technology ; supervised by Prof. Jing Zhao
- The objective of this project is to synthesis chemical controlled-release pesticide to improve the effective of pesticide and reduce the environmental contamination
- Studied the controlled-release mechanism of common pesticides in China, synthesized the cellulose based controlled-release pesticide; characterized the yield and releasing rate of the pesticide by UV and FITR

12/2007-06/2008

#### Analysis and Comparison of Decontamination Capability of Common Detergents

- The Third Prize of the 4<sup>th</sup> "Sprout Cup", Beijing University of Chemical Technology ➤ Beijing University of Chemical Technology
- The objective of this project is to compare the decontamination capability of different common brands of detergents and elect the optimal detergent brand to improve students' quality of life
- Did questionnaire survey to collect the information about common brands of detergents used by students and most common stains; compared the decontamination capability of different detergents for different strains by experiments; studied decontamination mechanism of detergents

HONORS and AWARDS

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- 12/2015 Master of Science with Distinction, Tampere University of Technology  
> GPA is 4.0 or higher and Master's thesis is graded either 4 or 5
- 02/2015 Erasmus Scholarship, Tampere University of Technology
- 06/2011 Outstanding Undergraduate Thesis, College of Materials Science and Engineering, Beijing University of Chemical Technology  
➤ Public defence evaluated by the committee of professors and experts ➤ Top 5% of the college
- Spring/2011 First-Class People's Scholarship, Beijing University of Chemical Technology ➤  
The academic and quality records ranked first in the major
- 04/2011 Merit Student, Beijing University of Chemical Technology  
➤ The honour for the student has outstanding performance in all-around development of morality, intelligence, physique, aesthetic and labour
- Fall/2010 Second-Class People's Scholarship, Beijing University of Chemical Technology ➤  
The academic and quality records ranked in top 5% in the major
- 09/2010 Outstanding Volunteer, Beijing University of Chemical Technology  
➤ Provided excellent voluntary service for China Science and Technology Museum
- Spring/2010 Third-Class People's Scholarship, Beijing University of Chemical Technology ➤  
The academic and quality records ranked in top 10% in the major
- 12/2008 Outstanding Student Leader, Beijing University of Chemical Technology  
> Director of the Publicity Department of University's Student Union  
➤ Excellent communication skill, coordinate ability, learning capacity and leadership talent
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- 05/2013-05/2014 International Tutor, Tampere University of Technology  
➤ Helped new exchange and degree international students get familiar with the Finnish cultures and guided their future academic life  
➤ Demand initiative and independence, language competence, knowledge of different cultures, problem-solving ability and team work skills
- 10/2012-05/2014 Committee Member of Chinese Students and Scholars Association of Tampere ➤  
Served for the Chinese students living in Tampere, Finland
- 11/2009-11/2010 China Community Volunteer, China Association of Social Workers  
➤ Provided the voluntary services for the socially disadvantaged group, public and welfare issues
- 09/2008-09/2010 Director of the Publicity Department of University's Student Union, Beijing University of Chemical Technology  
➤ Led the whole department to plan and organize student activities
- 09/2008-09/2009 President of Flaming Drama Club, Beijing University of Chemical Technology
- LEADERSHIP and VOLUNTEER EXPERIENCES
- Provided platform of drama performances among students ➤  
Organized drama performances for university's activities

## PERSONAL SKILLS

➤ Computer Skills

- Good command of Word, Excel, Power Point and other office software

➤ Professional Skills

- Understand the operation of NMR, DSC, TGA, SEM, UV, FTIR, Mechanical Test, in vitro biodegradation test, in vitro dissolution test, and other professional instruments
- Familiar with Origin, Chemdraw, MestReNova and TA Universal Analysis professional softwares

➤ Languages

- Chinese(Native proficiency)
- English (Professional working proficiency)
- Finnish(Elementary proficiency)

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