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# Curriculum Vitae

Name: **Siyuan Deng**

Date of Birth: **10.03.1989**

Citizenship: **Chinese**



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## EDUCATION

- 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

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## 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**
- **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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## **LEADERSHIP and VOLUNTEER EXPERIENCES**

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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**
- Leded the whole department to plan and organize student activates
- 09/2008-09/2009 **President of Flaming Drama Club, Beijing University of Chemical Technology**
- Provided platform of drama performances among students
  - Organized drama performances for university's activities

## **PERSONAL SKILLS**

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- **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)

邓思源 2016.06.16