

Chutian Jiang

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EDUCATION

National University of Singapore (NUS) & Technische Universität München (TUM)	08/2019-04/2021
<i>Master of Science (Joint Degree) in Industrial Chemistry GPA: 4.35(NUS), 1.44(TUM), (Passed with Distinction)</i>	
Nanjing University of Science and Technology (NJUST), China	09/2015-07/2019
<i>Bachelor of Engineering in Special Energy & Pyrotechnics GPA: 3.58/4.0 (Top 10%)</i>	

PROFESSIONAL EXPERIENCE

Institute of Software Chinese Academy of Science	08/2020-present
<i>Internship, Research Assistant, project leader</i>	
<ul style="list-style-type: none">With the instruction of Assoc. Prof. Teng Han, as the leader of the project, succeeded in developing a novel wearable soft device based on microfluidic chips and 3D printing, which is applied in VR system. The novel wearable soft device is based on chemical-induced haptic feedback.As the first author, my paper <i>Douleur: Creating Pain Sensation with Chemical Stimulant to Enhance User Experience in Virtual Reality</i> is accepted with minor revision by one of the top proceedings of computer science that is leveled A+: ACM Ubiquitous Computing (IMWUT). https://dl.acm.org/doi/10.1145/3463527One paper <i>LightSticker: Enabling Pervasive Light Emission Detection for Smart IoT Applications</i> was submitted to one of A+ level top proceedings of computer science: ACM: CHI. The project is related to a film-like optical sensor made by organic solar cells that can be used for legacy furniture update to be connected to IOT system, and also for rough gesture recognition.	
SINOPEC Southwest Oil & Gas Company. Ltd	07/2016-01/2017
<i>Internship, Research Assistant</i>	
<ul style="list-style-type: none">Joined a team of engineers, succeeded in noise control via selection, installation and testing of different deadener for the well stations of the company.Succeeded in Assisting HAZOP analyst to finish HAZOP analysis, and in proposing solutions.	

RESEARCH EXPERIENCE

Development of novel high burning rate propellant, Excellent Graduation Design	05/2018-01/2019
<ul style="list-style-type: none">With the instruction of Assoc. Prof. Xiangyang Lin, independently developed a novel high burning rate solid propellant consists HTPB, HClO₄, and Al powder. The structure design was based on Python through Monte Carlo method. Related Work was applied for patent. (Patent No.: 201910483071.4)	
Design of Positive Cyclodextrin Loaded Quantum Dots as Fluorescence Probe	04/2017-09/2018
<ul style="list-style-type: none">With the instruction of Prof. Weihua Tang and Jie Zhou, succeeded in developing a high-performance fluorescence probe based on CdSe quantum dots, and in chiral recognition of amino acid.	

ACTIVITIES

Director of the Sports Division of the School's Student Union	06/2016-05/2017
<ul style="list-style-type: none">Organized sports activities among the school, managed our sports teams, and co-planned large-scale campus activities with other schools.	
Freshman Counselor for the 2016 freshmen of the School	08/2016-07/2017
<ul style="list-style-type: none">Instructed freshmen to adapt to their college life and study, helped solve their problems.	

AWARDS

• DAAD Scholarship	11/2019
• DAAD Scholarship	11/2020
• Merit Student, NJUST	2015-2016
• Second level scholarship, NJUST	2015-2016

SKILLS

<ul style="list-style-type: none">Computer Skills and others: Experienced in SPSS, experienced in Python and C, experienced in Tableau, master in Microsoft Office (Word, Excel, PowerPoint), experienced in Origin, experienced in Chemdraw.Language Level: English (TOEFL: 102, GRE: 321), German (A2 level with certificate), Mandarin (Native).Chemical Experimental Tools: X-ray diffractometer (XRD), Differential scanning calorimetry (DSC), Fourier Infrared Spectrometer (FTIR), thermal gravimetric analysis (TGA), Fluorescent Spectroscope.Skills: Taekwondo 3rd level national athlete, Table Tennis 2nd level national athlete.	
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