

Jiadong DAN

BIOGRAPHICAL

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EDUCATION

June 2019 PH.D. IN MATERIAL SCIENCE *National University of Singapore*
Expected **Thesis:** None | **Advisor:** Prof. Stephen John PENNYCOOK
Concentration: 2-D MATERIALS & TEM, STEM
June 2015 BACHELOR IN MATERIALS SCIENCE & ENGINEERING *Shandong University*
GPA: 90.02/100 | **First-Class Honor**
FEB. 2014 EXCHANGE STUDENT IN MATERIALS SCIENCE & ENGINEERING *National Cheng Kung University*
GPA: 92.9/100

RESEARCH EXPERIENCE

2014-2015 **Undergraduate Researcher** at the WEIMIN@SDU Group, *MSE*
Simplification of TEM diffraction pattern indexing based on Java and Python
- Designed the algorithm for crystallographical and diffraction data interpretation.
- Designed the data structure to hold the crystallography information.
- Designed GUI for user interaction and data review.

2013-2014 **Exchange Undergraduate Researcher** at MIN-HSIUNG@NCKU Group, *MSE*
Preparation of Anodic Nanotube Arrays of Ni-Ti Alloys and Their Photocatalytic Properties
- Prepared for the reaction sample and made electrode for anodization.
- Familiar with the anodization and heat treatment equipments.
- Conducted operations for the UV-Vis adsorption spectrometer.

PROJECT EXPERIENCE

Efficient Research **Efficient Research Tools @NUS, MSE**
Combination of L^AT_EX, Python and Sublime Text 3 in Materials Research
- Created tons of L^AT_EX templates for academic use
- Modified Sublime Text plug-in *LaTeXTab* to generate academic table
- Sublime Text L^AT_EX snippets for crystallography

To-do: dimension analysis **Automatic Dimension @NUS, MSE**
Automatic dimension analysis application
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SKILLS & LANGUAGES

- • • L^AT_EX
- • Python
- • Java
- • Html
- Matlab
- Git
- JavaScript
- Small-scale projects and/or assignments
- • Relative complex projects and/or experience teaching
- • • Complex projects and/or release of the code for public use

HONORS/AWARDS

<i>2015</i>	NUS NGS Scholarship @NUS
<i>2013,2014</i>	Third Prize Scholarship @SDU
<i>2012</i>	First Prize Scholarship @SDU
	Merit Student of Shandong University @SDU
	First Place in College English Listening and Speaking @SDU
<i>2011</i>	First Place in the Department Debate Competition @SDU

TEACHING EXPERIENCE

<i>2015-2016</i>	Graduate Teaching Assistant CM2192@NUS, <i>Chem</i> <i>Experiment in Chemistry 3</i> - Supervised CM2192 labs
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