



# SUN Yudong

## 孙毓栋

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## Curriculum vitae

### Education

2005 - 2010	Nan Hua Primary School
2011 - 2014	Hwa Chong Institution (High School / IP)
German as a Third Language 2011 - 2014 <i>2nd in National Cohort</i>	
Science and Math Talent Programme Specialization in Physics and Biology 2013 - 2014 <i>Outstanding Student Award Recipient</i> <i>Academic Mean Subject Grade = 1.27</i>	
2015 - 2016	Hwa Chong Institution (Junior College)
Gifted and Talented Education Programme Specialization in Physics and Maths 2015 - 2016	
Singapore - Cambridge GCE A Levels <i>H2 Physics, Chemistry, Mathematics, German 4 × A's</i> <i>H3 Linear Algebra [NUS] Distinction</i> <i>Hwa Chong Diploma with Distinction</i>	

### Co-Curricular Activities

2011 - 2014	Electronics and Computer Club
Vice - Chairman 2013 - 2014	
2014 - 2016	Photonics Interest Group
2015 - 2016	Infocomm Club
2015 - 2016	Gifted and Talented Education Program Student Committee
2015 - 2016	Science Students' Research Council
Council Publicity I/C 2016	
Physics Interest Group (Main Committee)	
International Science Youth Forum (ISYF) 2016	
↳ Media and Publicity I/C	

### Engagements

2015/02 - 2016/06	Coding4Children at Ulu Pandan Stars (UP Stars)
2017/01 - /02	Teaching Intern (Physics / Maths) at Queensway Secondary School
2017/02 - Now	NSF (Army / 35SCE)
2018/02 - Now	SJPO Alumni Trainer at Hwa Chong Institution

### Skills and Abilities

#### Languages

English	Chinese	German
Excellent Written and Spoken	Good Written and Spoken	Good Written and Spoken TestDaF (TDN 4/5/4/4)

#### IT Skills

<b>Proficient</b>	Web Design and Development using JavaScript, HTML/CSS, and PHP/MySQL Document processing with LaTeX
<b>Competent</b>	System administration and automation on unix-based systems <i>shell scripting; deployment of servers and LAMP stacks</i> Python, C++ data-processing purposes used in conjunction with software such as gnuplot.
<b>Basic</b>	C#, Java, VBA and MATLAB Competitive programming Computer security

### Relevant Experiences and Achievements

#### YDSP World of Science Modules

2015	Signal Processing
2014	Computer Security

#### Research Endeavours

2016	Institute of Physics, Singapore Conference <i>Photonics / Poster Presenter</i> Measuring the Temporal Correlation of Light from a Mercury Discharge Lamp
2014	Singapore Science and Engineering Fair <i>Env Science / Poster Presenter</i> Bioremediation of Strontium and Copper ions in water by Algae <i>In Collaboration with Loudoun Academy of Science, VA, USA</i>

#### Academic Achievements

2016	Euclid Math Contest	Distinction
2016	National Olympiad in Informatics	Bronze
2015	Singapore Physics Olympiad	School Team
2015	Singapore Jr. Physics Olympiad	Bronze
2015	International Biomedical Olympiad	Bronze