



SUN Yudong

孙毓栋

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Curriculum vitae

Education

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

Co-Curricular Activities

- 2011 - 2016 Electronics and Computer Club
Vice - Chairman 2013 - 2014
- 2014 - 2016 Photonics Interest Group
- 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
- 2015 - 2016 Gifted and Talented Education
Program Student Committee

Engagements

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

Skills and Abilities

- Languages**
- | English | Chinese | German |
|--------------------|--------------------|-----------------------|
| Excellent | Good | Good |
| Written and Spoken | Written and Spoken | Written and Spoken |
| | | TestDaF (TDN 4/5/4/4) |
- IT Skills**
- Proficient** Web Design and Development using
JavaScript, HTML/CSS, and PHP/MySQL
Document processing with LaTeX
- Competent** System administration and automation on
unix-based systems
shell scripting; deployment of servers and
LAMP stacks
Python, C++
data-processing purposes used in conjunction
with software such as gnuplot.
- Basic** C#, VBA and MATLAB
Competitive programming
Computer security
- Others** Photography, Video Editing

Relevant Experiences and Achievements

- YDSP World of Science Modules**
- 2015 Signal Processing
2014 Computer Security
- Research Endeavours**
- 2016 Institute of Physics, Singapore Conference
Photonics / Poster Presenter
Measuring the Temporal Correlation of Light from
a Mercury Discharge Lamp
- 2014 Singapore Science and Engineering Fair
Env Science / Poster Presenter
Bioremediation of Strontium and Copper ions in
water by Algae
In Collaboration with
Loudoun Academy of Science, VA, USA

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 |