

CONTACT INFORMATION	<p><i>E-mail:</i> aldrianobaja.m@gmail.com</p> <p><i>GitHub:</i> http://github.com/justhalf</p>
RESEARCH INTERESTS	Natural language processing, Combinatorics, Algorithm
PUBLICATIONS	<p>Labeling Gaps Between Words: Recognizing Overlapping Mentions with Mention Separators Sep '17</p> <p>Aldrian Obaja Muis and Wei Lu</p> <p>To appear in Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing (EMNLP 2017). Long paper</p> <p>MalwareTextDB: A Database for Annotated Malware Articles Aug '17</p> <p>Sweekiat Lim, Aldrian Obaja Muis, Wei Lu and Chen Hui Ong</p> <p>In Proceedings of the conference of the Association for Computational Linguistics (ACL 2017). Long paper. New dataset</p> <p>Efficient Dependency-guided Named Entity Recognition Feb '17</p> <p>Zhanming Jie, Aldrian Obaja Muis and Wei Lu</p> <p>In Proceedings of the 2017 Conference on Artificial Intelligence (AAAI-17)</p> <ul style="list-style-type: none"> Performed the theoretical complexity analysis of the model via combinatorial analysis <p>Learning to Recognize Discontiguous Entities Nov '16</p> <p>Aldrian Obaja Muis and Wei Lu</p> <p>In Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP 2016). Long paper</p> <ul style="list-style-type: none"> Includes some combinatorial analysis in the supplementary <p>Weak Semi-Markov CRFs for NP Chunking in Informal Text Jun '16</p> <p>Aldrian Obaja Muis and Wei Lu</p> <p>In Proceedings of the 2016 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL 2016). Short paper</p>
WORK EXPERIENCE	<p>Singapore University of Technology and Design (SUTD), Singapore</p> <p><i>Research Assistant</i> Jul '15 - Present</p> <ul style="list-style-type: none"> Exploring semantic representations using graphical models for structured prediction Supervising undergraduate student researchers in research projects Advisor: Asst. Prof. Lu Wei <p>Knorex Pte. Ltd., Singapore</p> <p><i>Research Engineer</i> Jul '13 - Jun '15</p> <ul style="list-style-type: none"> Designed and performed experiments for text classification on news articles Implemented and extended existing method on concept extraction for key terms extraction Redesigned and optimized a system for efficient distributed computing Developed and maintained in-house tools for natural language processing
EDUCATION	<p>National University of Singapore, Singapore Jul '09 - Jul '13</p> <p>Undergraduate, School of Computing</p> <ul style="list-style-type: none"> Bachelor of Computing (Computer Science, First Class Honours) Recipient of Lijen Industrial Development Award (Second top student) Majoring in Computer Science with focus area on Computer Networks Taking the course under Turing (research) Program Minoring in mathematics
ACADEMIC EXPERIENCE	<p>School of Computing, National University of Singapore, Singapore</p> <p><i>Web Project Developer</i> for TEAMMATES May '12 - Jun '12</p> <ul style="list-style-type: none"> Evaluated existing code and improve testing time to 5 times faster by refactoring and recoding the whole testing phase in 6 weeks Migrated the application from a client-based Javascript website into server-based JSP website <p><i>Teaching Assistant (TA)</i></p>

Class tutor for CS1231: Discrete Structures	Aug '12 - Nov '12
Laboratory TA for CS1020: Programming Methodology 2	Jan '12 - Apr '12
Laboratory TA for CS1020: Programming Methodology 2	Aug '11 - Nov '11
Laboratory TA for IT1006: MATLAB Programming	Jan '11 - Apr '11
<ul style="list-style-type: none"> Performed beyond the call of duty by conducting a mock exam to help students prepare for their final exams Delivered presentations in class of around 14 to 22 students every week during the term 	

PAST RESEARCH	School of Computing, National University of Singapore , Singapore	
	<i>Final Year Project</i> (Honours Project)	May '12 - Apr '13
	<ul style="list-style-type: none"> Evaluated an existing algorithm for domain specific Word Sense Disambiguation through comparison with other algorithms Advisor: Prof. Ng Hwee Tou 	
	<i>Undergraduate Research Opportunity Program</i> (UROP)	May '11 - Apr '12
	<ul style="list-style-type: none"> Implemented and evaluated existing algorithm on extracting data from the Web under different domain through extensive experiment Advisor: A/P Stéphane Bressan 	
	<i>Undergraduate Student Researcher</i> (USR)	May '10 - Dec '10
	<ul style="list-style-type: none"> Analyzed the quality of translation from English to Malay and English to Bahasa Indonesia Adapted existing Malay word stemming program into Bahasa Indonesia Studied the language differences between Malay and Bahasa Indonesia Advisor: Prof. Ng Hwee Tou 	

CO-CURRICULAR ACTIVITIES	NUSSU commIT (formerly known as NUSSU CBLC until Jun '11)	
	<i>Head of Technical Cell</i>	Jul '12 - Jun '13
	<i>Assistant Head of Technical Cell</i>	Jul '10 - Jun '12
	<i>Member of Technical Cell</i>	Aug '09 - Jun '10
	<ul style="list-style-type: none"> Maintained 100+ computers in the computer clusters in NUS through general cleanup, backup, and automated updates Developed public and internal website of NUSSU commIT for intensive daily usage 	
	<i>Technical Head of NUSSU CBLC IT Flair 2010</i>	Feb '10 - Apr '10
	<ul style="list-style-type: none"> IT Flair is a combination between IT Fair and Flea market Developed website as publication media for the event and for selling second-hand items 	
	<i>Vice Project Director of NUSSU CBLC Cyberia Camp 2010</i>	Oct '10 - Dec '10
	<ul style="list-style-type: none"> Cyberia Camp is a 3-day camp for certified Adobe Photoshop and Illustrator Training Led a team of 14 people to successfully organized the camp and received overwhelming response and positive feedback 	
	<i>NUS ISCF (Indonesian Students' Christian Fellowship)</i>	
	Executive Committee	Jul '11 - May '13
	<ul style="list-style-type: none"> Managed a weekly group meeting of around 40 students 	

AWARDS	Lijen Industrial Development Award	Jul '13
	<ul style="list-style-type: none"> Represents the second top student in the batch 	
	Dean's List Recipient for 4 (four) semesters	Jul '09 - Dec '11
	<ul style="list-style-type: none"> Represents top 5% of the cohort in Jul '09, Jan '10, Jan '11, Jul '11 	
	Scholarship from Indonesian Government to pursue tertiary education	Jul '09 - Jun '13
	Bronze medal , International Mathematical Olympiad in Bremen, Germany	Jul '09
	Bronze medal , International Mathematical Olympiad in Madrid, Spain	Jul '08
	Absolute winner , National Mathematical Olympiad in Surabaya, Indonesia	Sep '07
	Bronze medal , National Mathematical Olympiad in Semarang, Indonesia	Sep '06
	Gold medal , National Mathematical Olympiad in Jakarta, Indonesia	Sep '05

SKILLS	Computer Programming:	
	<ul style="list-style-type: none"> Java, Python, JavaScript, Perl, C/C++ 	
	Software Engineering:	
	<ul style="list-style-type: none"> Designed and developed web and desktop applications 	

Information/Internet Technology:

- Maintained small to moderate size computer networks

Mathematics:

- Combinatorics, especially graph theory

HOBBIES AND
INTEREST

Music (playing piano and guitar, leading a youth choir in church), creative literature, reading books

LANGUAGES

Bahasa Indonesia (mother tongue), English