

CURRICULUM VITAE

Maria Ulfah Siregar

**Home Address: Jl Petung No 11
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SELF-IDENTITY

Name	: Maria Ulfah Siregar
Place and date of birth	: Padang Sidempuan (Indonesia), 6 January 1978
Sex	: ☐ Male ☒ Female
Website	: http://sinta2.ristekdikti.go.id/authors/detail?id=6071889 &view=overview
Affiliation	: Lecturer at UIN Sunan Kalijaga, Faculty of Science and Technology, Graduate Program, Department of Informatics, DI Yogyakarta, Indonesia
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EDUCATION AFTER SCHOOL

Undergraduate	Institut Teknologi Sepuluh Nopember (ITS) Surabaya, Indonesia	Informatics	Completed.
Final project title: "The Implementation of Software for Locating Facial Features Using Genetic Algorithms" (in Indonesia language). It was supervised by Prof. Arif Djunaidy and Dr. Rully Soelaiman. Then implementation uses Borland C++ Builders.			
Masters	National University of Malaysia (UKM), Malaysia	Computer Science	Completed.
Master thesis title: "Implementation of Generator for Z Conceptual Model Using JFlex and BYacc/J Specification" (in Malay language). My supervisor was Assoc. Prof. Zarina Shukur. I used Java for the implementation.			
Certificate of Accomplishment (Course online)	Stanford University	Algorithms: Design and Analysis, part I (Online)	Completed
PhD	The University of Sheffield, United Kingdom	Computer Science	Completed
PhD thesis title: Support for Model Checking Z Specifications. My first supervisor is Prof John Derrick and the second supervisor is Dr Siobhan North. The implementation uses Java.			

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LECTURER HISTORY (Indonesia)

Lectures	Degree	Institution/ Department/ Sub- department	Sem/ Academic Years
Informatics Logic	Undergraduate	Informatics	1/2008 2009 1/2009 2010 1/2010 2011 1/2011 2012 1/2012 2013
Introduction to Information Technology	Undergraduate	Informatics	2/2008 2009
Object Oriented Programming	Undergraduate	Informatics	2/2008 2009 2/2009 2010 2/2010 2011
Neural Network	Undergraduate	Informatics	1/2009 2010
Operating System	Undergraduate	Informatics	2/2009 2010
Analysis and Strategy Algorithms	Undergraduate	Informatics	2/2010 2011 2/2011 2012
Automaton and Language Theory	Undergraduate	Informatics	1/2011 2012 1/2012 2013
Evolutionary Computation	Undergraduate	Informatics	2/2011 2012
Concept of Programming Language	Undergraduate	Informatics	1/2017 2018
Indonesia Language	Undergraduate	Informatics	2/ 2017 2018
Numerical Methods	Undergraduate	Informatics	2/ 2017 2018
Expert System	Undergraduate	Informatics	2/ 2017 2018
English	Undergraduate	Informatics	1/ 2018 2019
Artificial Intelligence	Undergraduate	Informatics	1/ 2018 2019
Informatics Logic	Undergraduate	Informatics	1/ 2018 2019
Logic and Automaton	Master	Informatics	1/ 2018 2019
Numerical Method	Undergraduate	Informatics	2/ 2018 2019
Expert System	Undergraduate	Informatics	2/ 2018 2019
Computer System and	Master	Informatics	2/ 2018 2019

Organization			
English	Undergraduate	Informatics	1/ 2019 2020
Informatics Logic	Undergraduate	Informatics	1/ 2019 2020
Logic and Automaton	Master	Informatics	1/ 2019 2020
Automatic Reasoning	Master	Informatics	1/ 2019 2020

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DEMONSTRATOR/ MARKING (The University of Sheffield)

Modules	Degree	Institution/ Department/ Sub- department
AI Techniques (marking)	Undergraduate	Computer Science
Advance Programming Topics – Haskell Language (marking)	Undergraduate	Computer Science
Foundations of Computer Science (marking and demonstrator)	Undergraduate	Computer Science
Logics (demonstrator)	Undergraduate	Computer Science
Introduction to Analysis and Data Structure (marking and demonstrator)	Undergraduate	Computer Science

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SCIENTIFIC WORKS

Books/Chapters of Book/Journals

Years	Title	Publisher/Journal
2008	<i>Data Preparation for Data Mining Based on Neural Network: A Case Study on German Credit Classification Dataset</i>	Kaunia, Faculty of Science and Technology, UIN Sunan Kalijaga, vol. IV No.2, Oktober 2008/1429
2009	Ada Apa Dengan Si Fenomenal Berry Hitam	Fihris Vol. IV, No. 1, hlm. 189-204, (Januari - Juni 2009), ISSN: 1978-9637, Faculty of Letter, UIN Sunan Kalijaga (in Indonesia language)
2012	<i>An Approach for Pre-Diagnosis Information Literacy Level by Using Expert System</i>	International Journal on Informatics for Development Vol. 1, No. 1, 2012, ISSN: 2252-7834, Informatics Department, State Islamic University Sunan Kalijaga
2012	<i>A New Approach to CPU Scheduling Algorithm: Genetic Round Robin</i>	International Journal of Computer Application Vol. 47, No. 19, June 2012
2013	<i>Expert System for Diagnosis Skin Disease in Infants with Case-Based Reasoning</i>	International Journal on Informatics for Development (IJID), Vol 2 No 2 (May) 2013
2013	<i>Automatic of Correction and Program Evaluation using Web-Based System</i>	IJID, Vol 2 No 2 (May) 2013
2014	<i>Recommendation of Self-Medication for Mild Digestive-Diseases with Dempster-Shafer Method</i>	IJID, Vol 3 No 1 (May) 2014
2018	<i>A Pre-processing Tool for Z2SAL to Broaden Support for Model Checking Z Specifications</i>	AISC 1 st ed. 2018
2018	<i>A Scanner and Parser for Z Specifications</i>	IJID, Vol 7 No 1 (June) 2018
2018	<i>A Usage of McCall's Software Quality Analysis on the Bonus System of PT Surya Pratama Alam</i>	Jurnal Informatika Sunan Kalijaga (JISKa), Vol 3 No

		1 (May) 2018 (in Indonesia language)
2018	<i>Design and Development of Web Based Employee Payroll Information System Using Codeigniter Framework and Extreme Programming Method</i>	IJID, Vol 7 No 2 (Dec) 2018
2019	<i>Revitalisasi Pengelolaan Jurnal IJID</i>	JISKa, Vol 4 No 1 (Mei) (in Indonesia language)
2019	<i>Rancang Bangun Sistem Informasi Penyediaa Air Minum dan Sanitasi Berbasis Masyarakat (PAMSIMAS) dengan Menggunakan Metode Extreme Programming</i>	JISKa, Vol 4 No 2 (September)

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Research

Years	Title	Team	Fund
2011	Analisis Efektivitas Kombinasi Algoritma Tabu Search dan Algoritma Greedy (Studi Kasus: Proses Penjadwalan Ujian di Fakultas Sains dan Teknologi)	Maria Ulfah Siregar (PI), Nur Wachid Adi Prasetya, Andri Fauji, dan Abdullah Hafidh Sidiq	Grant from Faculty of Science and Technology, UIN Sunan Kalijaga (Rp 5.000.000,-)
2011	Pengukuran dan Analisis Tingkat Literasi Informasi Mahasiswa UIN Sunan Kalijaga dengan Menggunakan Rule-Based Expert System untuk Mengefektifkan Pembelajaran Universitas	Maria Ulfah Siregar (PI), Suparni, Aulia Faqih Rifa'i, Joko Munandar	Grant from Lembaga Penelitian dan Pengabdian Masyarakat (LPPM), UIN Sunan Kalijaga (Rp 16.000.000,-)
2018	Eduroam dan Universitas Berbasis Riset	Maria Ulfah Siregar (PI), Bambang Sugiantoro, Novriandi, Fares Analis	Grant from Lembaga Penelitian dan Pengabdian Masyarakat (LPPM), UIN Sunan Kalijaga (Rp 50.000.000,-)
2018	Revitalisasi Pengelolaan Jurnal Internasional Informatika IJID	Sumarsono (PI), Maria Ulfah Siregar	Grant from Lembaga Penelitian dan Pengabdian Masyarakat (LPPM), UIN Sunan Kalijaga (Rp 30.000.000,-)
2018	A Pre-processing Tool for Z2SAL to Broaden Support for Model Checking Z Specifications	Maria Ulfah Siregar	Grant from Lembaga Penelitian dan Pengabdian Masyarakat (LPPM), UIN Sunan Kalijaga (Rp 10.000.000,-)
2018	Pengembangan Jurnal IJID	Maria Ulfah Siregar	Grant from Diktis, (Rp

			30.000.000,-)
2019	Verification of a Rule-Based Expert System by using SAL Model Checker	Maria Ulfah Siregar	Grant from Lembaga Penelitian dan Pengabdian Masyarakat (LPPM), UIN Sunan Kalijaga (Rp 25.000.000,-)

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Conferences/ Seminars/ Workshops

Years	Title of Activity	Organizer	As
2007	Industrial Electronics Seminar (IES): “Generator for Z Conceptual Model Using JFlex and BYACC/J Specification”	Electronics Engineering Polytechnic Institute of Surabaya – ITS, Indonesia	Author and Presenter
2009	Industrial Informatics Seminar (IIS): “Development of Computer Graphics Learning Tool Object-Based: A Case Study on Bresenham and Midpoint Algorithm”	Informatics Department, Industrial Engineering Department, Faculty of Science and Technology, UIN Sunan Kalijaga Yogyakarta, and Universiti Tun Hussein Onn Malaysia (UTHM)	Steering committee and Author
2010	Indonesia 3 rd Summer School on Computational Logic and Logic Programming for Artificial Reasoning (LPAR)	UII Yogyakarta Indonesia	Participant
2011	International Conference on Informatics Development (ICID): “Pre Diagnosis of Information Literacy Level”	Informatics Department, Faculty of Science and Technology, UIN Sunan Kalijaga Yogyakarta	Steering committee and Author
2014	A workshop on Semantics of Proofs and Certified Mathematics	The Institute Henri Poincare, Paris and Universite Paris Diderot	Participant
2014	9 th Annual South-East European Doctoral Student Conference: “An Investigation into the Use of Abstraction in Model Checking Z Specification”	South-East European Research Centre, The University of Sheffield, and City College an International Faculty of the University	Author and Presenter (paper)
2014	International Conference on Advanced Computer Science and Information Systems (ICACSIS): “Experiences Using Z2SAL”	Faculty of Computer Science, Universitas Indonesia	Author (paper)

2014	University of Sheffield Engineering Symposium: “Using Abstraction in Model Checking Z Specifications”	Faculty of Engineering, University of Sheffield, United Kingdom	Author (extended abstract and poster)
2015	Midlands Graduate School Summer school on the Foundation of Computer Science	University of Sheffield, United Kingdom	Participant
2015	The York Doctoral Symposium: “A Support for Model Checking Z Specifications”	University of York, United Kingdom	Author and presenter (poster)
2016	The 4th IEEE International Workshop on Formal Methods Integration (FMi): “Support for Model Checking Z Specifications”	University of Pittsburgh, Pennsylvania, US	Author and presenter (paper)
2019	The 3 rd International Conference on Informatics and Computational Sciences (ICICoS): “Verification of a Rule-Based Expert System by Using SAL Model Checker”	Semarang, Indonesia	Author and presenter (paper)

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PROFESSIONAL ORGANIZATIONS

Years	Kinds	Membership
2009	Forum Diskusi Ilmiah, Faculty of Science and Technology	Member
2009	Journal Kaunia, Faculty of Science and Technology	Member
2010	Forum Diskusi Ilmiah, Faculty of Science and Technology	Member
2010	International Association of Computer Science and Information Technology	Member
2010	Indonesian 3 rd Summer School on Computational Logic	Participant
2010	Logic Programming for Artificial Reasoning (LPAR)	Participant
2011	indoCEISS	Member
2015	IEEE Student	Member
2016	IEEE Student	Member
2018	IEEE	Member

I declare that all information in the Curriculum Vitae is true and if there are mistakes, I am willing accountable.

Yogyakarta, 14 January 2020
Yours sincerely,



Maria Ulfah Siregar