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# RADITYO EKO PRASOJO

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Curriculum Vitae

**Date of Birth:** October 24, 1992  
**Place of Birth:** Surabaya (Indonesia)  
**Citizenship:** Indonesian  
**Home Address:** Perum ITS, Jl. Teknik Arsitektur Blok H-2,  
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**Language:** Indonesian Native  
Javanese Native  
English Advanced (IELTS 7.5)  
Italian Basic (Level A1.1)  
German Basic (Level A1.1)

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## SHORT BIO

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I am a Ph.D student in the KRDB Research Centre for Knowledge and Data, Faculty of Computer Science, Free University of Bozen-Bolzano. My current research interests are information extraction on the Web, data quality on the Web and the Semantic Web.

I was a grant receiver of the European Master's Program in Computational Logic (EMCL). My master's thesis is titled "Entity and Aspect Extraction for Organizing News Comments". In 2015, I received my M.Sc with overall score of 1.7 (*good*, German scoring system) and thesis score of 1.0 (*excellent*, the highest possible mark). Prior to that, I received an S.Kom (Bachelor in Computer Science) *cum laude* from the University of Indonesia in January 2012 and was awarded the youngest graduate of the year.

I have worked as a teaching assistant on multiple courses, including Discrete Mathematics, Calculus, Computer Networks, Data Structure, Analysis of Algorithms, Cryptography, and Numerical Analysis. I was an intern in IBM Indonesia in 2011 and a mobile developer in Badr-Interactive, a startup company in Indonesia.

## EDUCATION

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- 2015 **M.Sc. in Computer Science**, *TU Dresden & Free University of Bozen Bolzano, joint degree from the European Master in Computational Logic (EMCL) programme*. Overall score: 1.7 (good), thesis score: 1.0 (excellent).  
Thesis: "Entity and Aspect Extraction for Organizing News Comments."  
Supervisors: Mouna Kacimi & Werner Nutt.
- 2012 **B.Sc. in Computer Science** (*cum laude*, 150/144 credits, 3.64/4.00 GPA), *University of Indonesia*. Graduated in only 7 semesters (normally 8 semesters).  
Thesis: "Identity-Based Encryption from the Weil-Pairing and Its Implementation Using Java."  
Supervisor: Lim Yohanes Stefanus.
- 2008 **Senior High School**, *SMAN 5 Surabaya*. Graduated in two years (normally three years). Only 22 students in Surabaya achieved this feat in 2008.
- 2006 **Junior High School**, *SMPN 1 Surabaya*. Graduated in two years (normally three years). Only 18 students in Surabaya achieved this feat in 2006. Graduated with a perfect score in Mathematics in the final exam.

## RESEARCH

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- 2015-present **Entity-Relationship Extraction from Wikipedia for Automated Web Data Enrichment.**  
For more than a decade since its inception, the Web has been growing more into a web of documents that is tailored for users. As a result, a huge portion of data in the Web is represented in human language, but only a small portion is in machine-readable format. An application that relies on searching information from the Semantic Web would suffer from missing or incomplete information. Our goal is to enrich existing knowledge bases (KBs) of RDF data by adding new information that is obtainable from the unstructured text of Wikipedia. We aim to develop a novel technique to extract structured information from the unstructured part of Wikipedia articles, which involves grammatical dependency analysis and knowledge representation technique.
- 2014-present **Quality Management of Web Data.**  
With the vast amount of data available on the Web, data quality has become an important issue. However, until recently, we have suffered from the lack of machine-readable quality annotation for data and information on the web, and an automated means to assess the quality of data and information we receive from the web, typically by posing a query using some kind of search engine. Consequently, we don't know whether the answers of our query is high-quality, that is, for instance, correct, complete, and timely. In this line of research, we investigate ways to (1) formalize data quality information in a machine-readable format, (2) assess the quality of answers returned by a query, and (3) extract data quality information available from the Web.
- 2014-2015 **Entity-and-Sentiment-centric News Comments Organization.**
- 2011-2012 **Identity-Based Encryption from the Weil Pairing.**

I have also done various research in some course works during my bachelor and masters study: **Investigating Simplex Algorithm and Interior-Points Method; Data Warehousing of an Airline Company; Modeling and Solving Timetabling Problem using SMT-Solver; Conceptual Modeling of the Internet Movie Database; Recognitto: A Facial-Recognition Security System; Game Modeling and Solving with SAT Solver; PL/0 Compiler Design and Implementation with Java; Cisco Routing on a Real-World Network Topology; Huffman Code in Linux Kernel: Design, Implementation, and Efficiency;**

## WORK EXPERIENCE

### TEACHING ASSISTANT

2016	<i>Data Structure and Algorithm</i>	Lab and tutorials. Lecturer: Prof. Werner Nutt. <i>Bachelor in Computer Science</i> , Free University of Bozen-Bolzano.
2012	<i>Cryptography and Information Security</i>	Lab and tutorials. Lecturer: L.Y. Stefanus, PhD. <i>Bachelor in Computer Science</i> , University of Indonesia.
2011	<i>Numerical Analysis</i>	Lab and tutorials. Lecturer: Prof. T Basaruddin and Prof. Heru Suhartanto. <i>Bachelor in Computer Science</i> , University of Indonesia.
	<i>Computer Networks</i>	Lectures, lab and tutorials. Lecturer: Heri Kurniawan, M.Sc. <i>Bachelor in Computer Science</i> , University of Indonesia.
	<i>Design and Analysis of Algorithm</i>	Lab and tutorials. Lecturer: L.Y. Stefanus, P.hD. <i>Master in Computer Science</i> , University of Indonesia.
2010	<i>Discrete Mathematics</i>	Lab and tutorials. Lecturer: Prof. Belawati Widjaja. <i>International Bachelor Program in Computer Science</i> , University of Indonesia.
	<i>Computer Networks</i>	Lab and tutorials. Lecturer: Agus Kurniawan, M.Sc. <i>Bachelor in Computer Science</i> , University of Indonesia.
	<i>Data Structures and Algorithms</i>	Reviewing student tasks and projects. Lecturer: Dr. Ade Azurat. <i>Bachelor in Computer Science</i> , University of Indonesia.
	<i>Calculus</i>	Providing lecture notes. Lecturer: Kasiyah Junus, M.Sc. <i>Bachelor in Computer Science</i> , University of Indonesia.

## OTHER WORK EXPERIENCE

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2015	<i>Free University of Bozen-Bolzano</i>	Contract researcher on <i>to-Know</i> project under supervision of Mouna Kacimi.
2015	<i>Free University of Bozen-Bolzano</i>	Contract researcher on <i>MAGIC: Managing Completeness of Data</i> under supervision of Werner Nutt and Simon Razniewski.
2012	<i>Badr-Interactive</i>	Worked as mobile developer. Designed and programmed mobile applications for clients. Supervisor: Andreas Senjaya, S.Kom.
2011	<i>IBM Indonesia</i>	Worked as an intern. Developed an internal database management system that is used as internal operational tools. Supervisor: I Nyoman Parkaraharja, Senior Manager of IBM Indonesia.

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## PROJECT EXPERIENCE

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2012	<i>Gerai Nisa Project</i>	A Badr Interactive's e-commerce project focusing on Islamic fashion and apparels. This project involved gamification to enrich users' shopping experience. <i>Roles: designer and programmer.</i>
2012	<i>Indobooks Project</i>	An e-commerce project funded by Three (three.com) mobile specializing on digital magazine. This project was focused on creating a custom PDF reader. <i>Roles: analyst and programmer.</i>
2012	<i>Ramadhan Guide Project</i>	A project focusing on creating mobile application to help muslims and enrich their experience during the holy month of Ramadhan. <i>Roles: project manager, analyst and programmer.</i>
2011	<i>DCMS Project</i>	Data Center Management System project, conducted during the internship program in IBM Indonesia. Its requirements involve database design and integration. <i>Roles: Project manager and programmer.</i>
2011	<i>GeekLook Project</i>	A fashion-based social networking website. <i>Roles: designer, analyst and programmer.</i>
2010	<i>Orphan Project</i>	A social project submitted for the National Student Creativity Week of Indonesia, aiming to help orphans all around Indonesia to connect to each other and to people that wants to help them via a customized social media, <i>sahabatkita.com</i> . <i>Roles: project manager and programmer.</i>
2010	<i>Bablazz Avider Project</i>	An Android mobile phone application that works as travel reminder and guider. <i>Role: programmer.</i>

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## PUBLICATIONS

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Full research paper	Radityo Eko Prasajo, Fariz Darari, Simon Razniewski, and Werner Nutt. Managing and Consuming Completeness Information for Wikidata Using COOL-WD. <i>COLD, co-located with ISWC</i> . 2016.
	Fariz Darari, Simon Razniewski, Radityo Eko Prasajo, and Werner Nutt. Enabling Fine-Grained RDF Data Completeness Assessment. <i>ICWE</i> . 2016.
	Radityo Eko Prasajo, Mouna Kacimi, and Werner Nutt. Entity and Aspect Extraction for Organizing News Comments. <i>CIKM</i> . 2015.
Demo paper	Radityo Eko Prasajo, Fariz Darari, and Mouna Kacimi. ORCAESTRA: Organizing News Comments using Aspect, Entity and Sentiment Extraction. <i>InfoVis</i> . 2015.
	Fariz Darari, Radityo Eko Prasajo and Werner Nutt. A Completeness Reasoner for SPARQL Queries over RDF Data Sources. <i>ESWC (Satellite Events)</i> . 2014.
Poster paper	Radityo Eko Prasajo. Entity-Relationship Extraction from Wikipedia Unstructured Text.. <i>ISWC DC</i> . 2016.
	Fariz Darari, Radityo Eko Prasajo, and Werner Nutt. Expressing No-Value Information in RDF. <i>ISWC</i> . 2015.

## GRANTS AND SCHOLARSHIPS

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2016	SWSA student travel grant for ISWC 2016 Doctoral Consortium and COLD presentations.
2015	SIGIR student travel grant for CIKM 2015 long paper presentation.
2014	Student travel grant for ESWC 2014 poster presentation.
2012-2014	European Master's Program in Computational Logic grant, which includes tuition fee, health insurance, transport allowance and living allowance.
2011	BUMN Scholarship for the top students of the Faculty of Computer Science, University of Indonesia. Two students received this scholarship.

## OTHER EXPERIENCES, ACTIVITIES AND ACHIEVEMENTS

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2016	Nominee of EMCL best thesis representing the Free University of Bozen-Bolzano.
2012	Awarded the youngest graduate of the University of Indonesia's 2012 first semester graduation.
2012	Speaker on Higher Education Seminar of Faculty Student Research Week.
2011	Elected the head of Student Legislative Council of Faculty of Computer Science, University of Indonesia.

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2007	Bronze medal winner of Student Mathematics Olympiad in Java-Bali Region held by Airlangga University.
2005	Runner-up of National Student Scientific Paper Competition in Environment held by the Indonesian Ministry of Education with a paper titled "My Green City, My Blue Sky".

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## SKILLS AND INTERESTS

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Programming: Object Oriented Programming (Java, Android Java, C++), Structural Programming (C, C++, Qt Symbian), Logic Programming (Prolog)

Database Management System (DBMS): MySql, Psql, Oracle

Semantic Web technology: OWL, RDF, SPARQL, DBpedia, Wikidata, YAGO

NLP tools: Stanford NLP, WordNet

Web Development: HTML, CSS, PHP, Javascript, Google Web Toolkit

Computer network: Cisco Router Configuration

Graphic Designing: GIMP, mainly focuses in logo design.

Art: Guitar, Singing, fiction writing

Sport: Swimming

## REFERENCES

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1. Dr. Mouna Kacimi  
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Free University of Bozen-Bolzano  
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E-mail: [mouna.kacimi@inf.unibz.it](mailto:mouna.kacimi@inf.unibz.it)
2. Prof. Werner Nutt  
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Free University of Bozen-Bolzano  
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