Ni Luh Dewi Sintiari

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WORK EXPERIENCE

Lecturer, in CS Study Program, Informatics Engineering Department., Undiksha 2022–now

EDUCATION

Ph.D. in Computer Science, at ENS de Lyon, France Dissertation: "Width parameters on even-hole-free graphs", advisor: Nicolas Trotignon	2018-2021
M.Sc. in Computer Science, at ENS de Lyon, France Thesis: "The structure of even-hole-free graphs"	2016–2018
B.A. in Mathematics Education, at Universitas Pendidikan Ganesha, Indonesia Thesis: "On the constructions of counting sequence based on Gray code"	2010-2014

Internships/Experiences

Research intern at LIP Laboratory of ENS de Lyon	Lyon, France
"Research on the structure of even-hole-free graphs", directed by Nicolas Trotignon	Jan 2018–July 2018
Research intern G-SCOP Laboratory	Grenoble, France
"Developing an algorithm to recolor d -degenerate graphs", directed by Nicolas Bousque	May 2017–July 2017
Research Intern at Dept. of Mathematics Edu., Ganesha Univ. of Education	Bali, Indonesia
"Research related to some properties of Gray code", directed by I Nengah Suparta	Jan 2014–June 2014
Mathematics teaching intern at the public Junior High School SMPN 1 Singaraja	Bali, Indonesia
Teaching students in grade 7 - 9	July 2013–Sept 2013

SPECIALIZATION AND INTEREST

I majored in Discrete Mathematics and Theoretical Computer Science. My PhD topic is Structural Graph Theory. I am also interested in various Mathematics topics and practical aspects of Computer Science.

SKILLS	LANGUAGES
• Tex, Python, HTML	• Indonesian: native speaker
	• English: fluent
	• French: basic communication skill

Publications/Preprints/Work in progress

[1] L. Cook, J. Horsfield, M. Preissmann, C. Robin, P. Seymour, N. L. D. Sintiari, N. Trotignon, and K. Vušković, "Graphs with all holes the same length (submitted)", 2021+.

- J. Horsfield, M. Preissmann, C. Robin, N. L. D. Sintiari, N. Trotignon, and K. Vušković, "When all holes have the same length", 2021+.
- N. L. D. Sintiari and N. Trotignon, "Structure of even-hole-free graphs of bounded maximum degree (in preparation)", 2021+.
- P. Aboulker, I. Adler, E. J. Kim, N. L. D. Sintiari, and N. Trotignon, "On the tree-width of even-hole-free graphs", CoRR, vol. abs/2008.05504 (to appear in European Journal of Combinatorics), 2020.
- M. Pilipczuk, N. L. D. Sintiari, S. Thomassé, and N. Trotignon, "(theta, triangle)-free and (even hole, k₄)-free graphs. part 2: Bounds on treewidth", CoRR, vol. abs/2001.01607 (to appear in Journal of Graph Theory), 2020.
- N. L. D. Sintiari and N. Trotignon, "(theta, triangle)-free and (even hole, k_4)-free graphs. part 1: Layered wheels", CoRR, vol. abs/1906.10998 (to appear in Journal of Graph Theory), 2019.

TALKS

• 3rd Indonesian Combinatorial Society seminar (online)	November 2021
Title: On the decomposition of hereditary graph classes (30 minutes)	
• 8th European Congress of Mathematics (online)	June 2021
Title: On the tree-width of even-hole-free graphs (20 minutes)	
• e-PCC Seminar Series (online)	April 2021
Title: A survey on even-hole-free graphs	
• 22e Journées Graphes et Algorithmes (online)	November 2020
Title: On the treewidth of even-hole-free graphs (20 minutes)	
• 21e Journées Graphes et Algorithmes, Bruxelles, Belgium	November 2019
Title: Layered wheels (20 minutes)	
• 4th International Conference in Graph Theory and Information Security, Jember, Indonesia	July 2019
Title: Problems around even-hole-free graphs (15 minutes)	
• 9th International Conference on Graph Theory, Bled, Slovenia	June 2019
Title: Layered wheels (20 minutes)	
• Workshop on Even-Hole-Free Graphs, Belgrade, Serbia	April 2019
Title: Even-hole-free graphs of large treewidth (30 minutes)	

ΓEACHING (FORMAL/INFORMAL)	
• Teaching Assistant at Computer Science Department of ENS de Lyon	
- Information Theory; Performance Analysis and Network; Introduction to Computer Science	ce (Master) Fall 2020
- Probability (Bachelor)	Spring 2020
- Information Theory (Master)	Fall 2019
- Cryptography and Security (Master)	Spring 2019
- Optimization and Approximation (Master)	Fall 2018
• Teaching Assistant at Mathematics Education Dept. of Ganesha University of Education	
- Basic Coding Theory (Bachelor)	Spring 2015
- Combinatorics (Bachelor)	Fall 2014
- Fundamental of Trigonometry (Bachelor)	Fall 2012

• Mathematics Teacher at Private High School SMA Kertha Wisata Singaraja, Bali, Indonesia 2013 - 2014

• Informal Teaching

From 2010 to 2015, I worked as a private mathematics teacher for school students in Bali, Indonesia. Every now and then I also guided the Balinese delegation who compete in the Indonesian National Mathematics Olympiad. From 2015 to 2016, I worked as a private tutor for university students in the city of Bandung, West Java, Indonesia. Now, I'm occasionally teach students to prepare them for Mathematics competition.

JOURNAL REVIEWS/REFEREE

• Discrete Mathematics; Journal of Graph Theory; Electronic Journal of Graph Theory and Applications

SCIENTIFIC DISSEMINATION

• 8th European Congress of Mathematics (online due to COVID-19	9) June 2021
• 22e Journées Graphes et Algorithmes (online due to COVID-19)	November 2020
• École de Jeunes Chercheurs en Informatique Mathématique 2020	(online due to COVID-19) June 2020
• ANR Digraph first meeting, Cabasse, France	January 2020
• 21e Journées Graphes et Algorithmes, Bruxelles Belgium	November 2019
• Bordeaux Graph Workshop, Talence, France	October 2019
• Conference in Graph Theory: A Tribute to Frédéric Maffray, Gre	enoble, France September 2019
• 4th International Conference in Graph Theory and Information S	Security, Jember, Indonesia July 2019
• 9th International Conference on Graph Theory, Bled, Slovenia	June 2019
• Workshop on Even-Hole-Free Graphs, Belgrade, Serbia	April 2019
• 20e Journées Graphes et Algorithmes, Grenoble, France	November 2018
• 10th International Colloquium on Graph Theory and Combinato	orics, Lyon, France July 2018
• 6th Seminar of Project ANR STINT, Saint-Maurice en Valgaude	emar, France July 2017
• CIMPA School on Coding Theory and Lattice for Cryptography, August 2016	at VNUHCM-University of Science, Vietnam,
• Summer School on Algebra, Statistics, and Combinatorics, at Aa	alto University, Finland May 2016
• SEAMS School on Coding and Graph Theory, at Hasanuddin Un	niversity, Indonesia October 2015
• International Conference on Mathematics, at Hasanuddin Univer	rsity, Makassar, Indonesia October 2015
• SEAMS School on Number Theory and Its Application in Crypto VNUHCM-University of Science, Vietnam	ography and Coding Theory, at September 2015
• 2nd International Conference on Graph Theory and Information	Security, Bandung, Indonesia September 2015
• SEAMS School on Combinatoris, at the Institute of Mathematics	s, VAST, Hanoi, Vietnam March 2015

SELECTED HONORS AND AWARDS

• Awarded Contrat Doctoral Spécifique Normalien (for PhD program) given by ENS de Lyon	2018-2021
• ACE (Activité Complementaire d'Enseignement) – a teaching fellowship program at ENS de Lyon	2018-2021
• Awarded LPDP Scholarship to do Master's study by the Ministry of Finance Indonesia	2016-2018
• Honored as Mahasiswa Berprestasi Undiksha	2014
• Honorable Mention in the Indonesian National Olympiad of Mathematics for University Students	2014
• Indonesian delegation in the 20th International Mathematics Competition	2013
• Bronze Medal in the Indonesian National Olympiad of Mathematics for University Students	2013
• 2nd place in the National Science Olympiad in Mathematics (Bali sector) held by PT Pertamina Indonesi	a 2011
• Awarded Bidikmisi Scholarship for Bachelor by the Ministry of Research and Technology Indonesia	2010-2014

GRANTS

- Travel grant to attend CIMPA School at Ho Chi Minh University of Science, Vietnam

 Topics: Coding Theory and Lattice for Cryptography, grant given by CIMPA

 August 2016
- Travel grant to attend Summer School at Aalto University, Finland

 Topics: Algebra, Statistics, and Combinatorics, grant given by Aalto University

 May 2016
- Travel grant to attend SEAMS School at Hasanuddin University, Indonesia October 2015

 Topics: Coding and Graph Theory, grant given by SEAMS (Southeast Asian Mathematical Society)
- Travel grant to attend SEAMS School at Ho Chi Minh University of Science, Vietnam September 2015 Topics: Number Theory and Its Application in Cryptography and Coding Theory, grant given by SEAMS
- Travel grant to attend SEAMS School at the Institute of Mathematics, VAST, Hanoi, Vietnam March 2015 Topics: Combinatorics, grant given by SEAMS
- Grant for community services given by the Ministry of Research and Technology of Indonesia 2013

 Leading organizer of 3-days workshop "Prevention of the spread of HIV/AIDS" in collaboration with the Dept. of

 Health and National AIDS Commission of Buleleng District, Bali, Indonesia
- Grant for community services given by the Ministry of Research and Technology of Indonesia 2011 Leading organizer of 2-months workshop "Dancing and painting" for children with intellectual disabilities – in collaboration with SLB C Singaraja (special school for children with intellectual disabilities), Bali, Indonesia

PROJECTS

• Mathematics Competition Book (published in 2012), by Math. Edu. Dept. of Ganesha Univ. of Education Three series of books: for the elementary, junior, and high school levels

REFERENCES

• Nicolas Trotignon, ENS de Lyon (nicolas.trotignon@ens-lyon.fr)

Extracurricular Activities

- Active in the Perhimpunan Pelajar Indonesia (Indonesian Students Association) in Lyon, France 2016–2021 Conducting various activities involving Indonesian students in Lyon
- Organizer of PhD days 2020 at LIP Laboratory of ENS de Lyon

 Annual event for PhD students at LIP Laboratory (cancelled due to COVID-19)
- Program chairs in the First International Symposium on Applied Science and Technology

 A symposium organized by Indonesian students in America and Europe (cancelled due to COVID-19)
- Chief of Journalistic Division in the Student Council of Math. Edu. Dept. of Undiksha 2012–2013 Conducting journalistic activities, I was a member of the team from 2010 to 2014
- Secretary of Academic Division in the Student Senate of FMNS Undiksha 2012–2013

 Represent the student body to the college administration, organizing academic events involving students
- Mathematics Tutor for the Orphanage at "Panti Asuhan Dana Punia" in Buleleng Regency, Bali, Indonesia 2010 Volunteering teaching activities