Ni Luh Dewi Sintiari

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Updated: February 2023

CURRENT POSITION

Lecturer in Computer Science of Informatics De	nent, UNDIKSHA 2022–now
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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

SPECIALIZATION AND INTEREST

I majored in Discrete Mathematics and Theoretical Computer Science. I am also interested in various Mathematics topics and practical aspects of Computer Science.

OTHER EXPERIENCES

Postdoctoral fellow at Discrete Mathematics RG of Wilfrid Laurier University with Dr. Kathie Cameron	Waterloo, Canada Jan 2023–now	
Teaching Assistant at Computer Science Department of ENS de Lyon Subjects in Theoretical CS for Bachelor Sep 2018–August 2021	Lyon, France Master programs	
Research intern at LIP Laboratory of ENS de Lyon "Research on the structure of even-hole-free graphs", directed by Dr. Nicolas Trotignon	Lyon, France Jan 2018–July 2018	
Research intern G-SCOP Laboratory "Developing an algorithm to recolor d -degenerate graphs", directed by Dr. Nicolas Bousqet	Grenoble, France May 2017–July 2017	
Research Intern at Dept. of Mathematics Edu., Ganesha Univ. of Education "Research related to some properties of Gray code", directed by Prof. I Nengah Suparta	Bali, Indonesia Jan 2014–June 2014	
Teaching Assistant at Computer Science Department of ENS de Lyon Subjects in Mathematics for Bachelor program	Lyon, France 2012–August 2015	
Mathematics Teacher at Private High School SMA Kertha Wisata Singaraja Subjects in Theoretical CS for Bachelor & Master programs	Singaraja, Indonesia Sep 2018–August 2021	

Mathematics teaching intern at the public Junior High School SMPN 1 Singaraja Bali, Indonesia Teaching students in grade 7 - 9 July 2013–Sept 2013

Informal Teaching

- Private mathematics tutor for students in Bali, Indonesia	2010-2015
- Tutor for Mathematics competition preparation in Bali, Indonesia	2010-now
- Pivate tutor for university students in the city of Bandung, West Java, Indonesia	2015-2016

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+.
- [2] J. Horsfield, M. Preissmann, C. Robin, N. L. D. Sintiari, N. Trotignon, and K. Vušković, "When all holes have the same length", 2021+.
- [3] N. L. D. Sintiari and N. Trotignon, "Structure of even-hole-free graphs of bounded maximum degree (in preparation)", 2021+.
- [4] 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.
- [5] 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.
- [6] N. L. D. Sintiari and N. Trotignon, "(theta, triangle)-free and (even hole, k₄)-free graphs. part 1: Layered wheels", CoRR, vol. abs/1906.10998 (to appear in Journal of Graph Theory), 2019.

TALKS

• 24e Journées Graphes et Algorithmes, on the delivery of the Charles Delorme prize (online) Title: Some width parameters on even-hole-free graphs (25 minutes)	November 2022
• Invited talk in the International Short Course on Graph Theory and Its Applications (online Title: Decomposition of graphs excluding induced subgraphs (1 hour)	October 2022
• Research group meeting at Wilfried Laurier (online) Title: Some width parameters on even-hole-free graphs (60 minutes)	January 2022
• 3rd Indonesian Combinatorial Society seminar (online) Title: On the decomposition of hereditary graph classes (30 minutes)	November 2021
• 8th European Congress of Mathematics (online) Title: On the tree-width of even-hole-free graphs (20 minutes)	June 2021

• 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)

OTHERS

- Journal Reviews/Referee: Discrete Mathematics; Journal of Graph Theory; Electronic Journal of Graph Theory and Applications, European Journal of Combinatorics, Indonesian Physical Review
- Certification: Microsoft Azure AI Fundamentals (2022), Microsoft Certified Educator (2022)

• International Conference on Mathematics, at Hasanuddin University, Makassar, Indonesia

SCIENTIFIC DISSEMINATION

• Focus Group Discussion Graph Theory and Combinatorics I, Bali, Indonesia	June 2022
- 3rd International Conference On Natural Sciences, Mathematics, Applications, Research, & T	echnology October 2022
• 8th European Congress of Mathematics (online due to COVID-19)	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, Grenoble, France	September 2019
• 4th International Conference in Graph Theory and Information 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 Combinatorics, Lyon, France	July 2018
• 6th Seminar of Project ANR STINT, Saint-Maurice en Valgaudemar, France	July 2017
\bullet CIMPA School on Coding Theory and Lattice for Cryptography, at VNUHCM-University of Saugust 2016	Science, Vietnam,
• Summer School on Algebra, Statistics, and Combinatorics, at Aalto University, Finland	May 2016
• SEAMS School on Coding and Graph Theory, at Hasanuddin University, Indonesia	October 2015

October 2015

 SEAMS School on Number Theory and Its Application in Cryptography and Coding Theory, at VNUHCM-University of Science, Vietnam
 2nd International Conference on Graph Theory and Information Security, Bandung, Indonesia
 September 2015

• SEAMS School on Combinatoris, at the Institute of Mathematics, 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 Indonesia	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	-	Augus	t 2016
	Topics: Coding Theory and Lattice for Cryptography, grant given by CIMPA			
•	Travel grant to attend Summer School at Aalto University, Finland		Mag	y 2016
	Topics: Algebra, Statistics, and Combinatorics, grant given by Aalto University			
•	Travel grant to attend SEAMS School at Hasanuddin University, Indonesia	C	Octobe	r 2015
	Topics: Coding and Graph Theory, grant given by SEAMS (Southeast Asian Mathematical Society)			
	The state of the s	~		2015

- 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