# Ni Luh Dewi Sintiari

#### EDUCATION

Ph.D. in Computer Science, at ENS de Lyon, France Dissertation: "Width oarameters 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	2010-2014

# Thesis: "On the constructions of counting sequence based on Gray code"

### INTERNSHIPS/EXPERIENCES

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

### SPECIALIZATION AND INTEREST

I majored in Mathematics Education, Discrete Mathematics, and Theoretical Computer Science. My PhD specialization is Structural Graph Theory. Nevertheless, 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+.
- [2] N. L. D. Sintiari and N. Trotignon, "Structure of even-hole-free graphs of bounded maximum degree (in preparation)", 2021+.
- [3] 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.

- [4] M. Pilipczuk, N. L. D. Sintiari, S. Thomassé, and N. Trotignon, "(theta, triangle)-free and (even hole, k<sub>4</sub>)-free graphs. part 2: Bounds on treewidth", CoRR, vol. abs/2001.01607 (to appear in Journal of Graph Theory), 2020.
- [5] 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)  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)  Title: A survey on even-hole-free graphs	April 2021
• 22e Journées Graphes et Algorithmes (online)  Title: On the treewidth of even-hole-free graphs (20 minutes)	November 2020
• 21e Journées Graphes et Algorithmes, Bruxelles, Belgium Title: Layered wheels (20 minutes)	November 2019
• 4th International Conference in Graph Theory and Information Security, Jember, Indonesia Title: Problems around even-hole-free graphs (15 minutes)	July 2019
• 9th International Conference on Graph Theory, Bled, Slovenia Title: Layered wheels (20 minutes)	June 2019
• Workshop on Even-Hole-Free Graphs, Belgrade, Serbia  Title: Even-hole-free graphs of large treewidth (30 minutes)	April 2019

### Teaching (Formal/Informal)

- Teaching Assistant at Computer Science Department of ENS de Lyon
  - Information Theory; Performance Analysis and Network; Introduction to Computer Science (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.

## JOURNAL REVIEWS/REFEREE

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

### SCIENTIFIC DISSEMINATION

<ul> <li>8th European Congress of Mathematics (online due to COVID-19)</li> <li>22e Journées Graphes et Algorithmes (online due to COVID-19)</li> <li>November 2020</li> <li>École de Jeunes Chercheurs en Informatique Mathématique 2020 (online due to COVID-19)</li> <li>June 2020</li> <li>ANR Digraph first meeting, Cabasse, France</li> <li>January 2020</li> <li>21e Journées Graphes et Algorithmes, Bruxelles Belgium</li> <li>November 2019</li> <li>Bordeaux Graph Workshop, Talence, France</li> <li>Conference in Graph Theory: A Tribute to Frédéric Maffray, Grenoble, France</li> <li>September 2019</li> <li>4th International Conference in Graph Theory and Information Security, Jember, Indonesia</li> <li>July 2019</li> <li>9th International Conference on Graph Theory, Bled, Slovenia</li> <li>June 2019</li> <li>Workshop on Even-Hole-Free Graphs, Belgrade, Serbia</li> <li>April 2019</li> <li>20e Journées Graphes et Algorithmes, Grenoble, France</li> <li>November 2018</li> <li>10th International Colloquium on Graph Theory and Combinatorics, Lyon, France</li> <li>July 2018</li> <li>6th Seminar of Project ANR STINT, Saint-Maurice en Valgaudemar, France</li> <li>July 2017</li> <li>CIMPA School on Coding Theory and Lattice for Cryptography, at VNUHCM-University of Science, Vietnam, August 2016</li> <li>Summer School on Algebra, Statistics, and Combinatorics, at Aalto University, Finland</li> <li>SEAMS School on Coding and Graph Theory, at Hasanuddin University, Indonesia</li> <li>October 2015</li> <li>International Conference on Mathematics, at Hasanuddin University, Makassar, Indonesia</li> <li>October 2015</li> <li>SEAMS School on Number Theory and Its Application in Cryptography and Coding Theory, at VNUHCM-University of Science, Vietnam</li> <li>2nd International Conference on Graph Theory and Information Security, Bandung, Indonesia</li> <li>September 2015</li> <li>SEAMS School on Combinatoris, at the Institute of Mathematics, VAST, Hanoi, Vietnam</li> <li>March 2015</li> </ul>		
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## 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 the most outstanding undergraduate student of the year at 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	ia 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

  August 2016

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