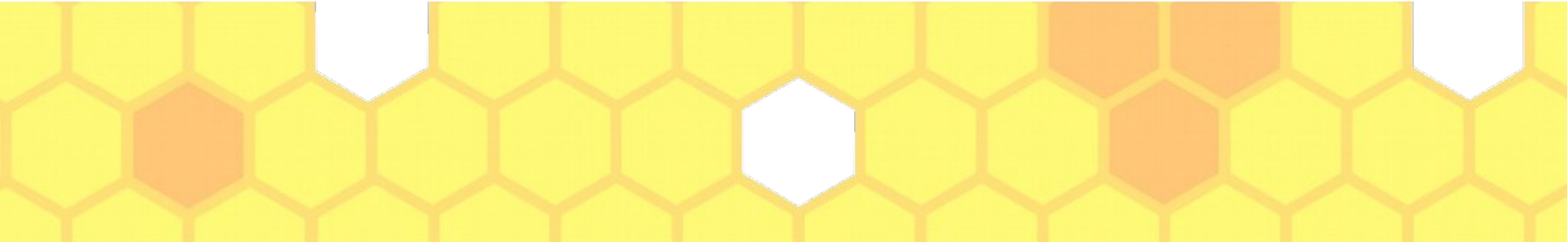




Sharing Session

with PhD students in Lyon
November 15th, 2022



Ni Luh Dewi Sintuari

- Born in *Singaraja, Bali, Indonesia (1992)*
- Now, a **junior lecturer in Computer Science study program** of Universitas Pendidikan Ganesha (*Ganesha University of Education*), in Singaraja, Bali, Indonesia (since January 2022).



EDUCATION

- **Ph.D. in Computer Science** at ENS de Lyon, France, at Laboratory LIP, supervised by Nicolas Trotignon (2018–2021)
- **M.Sc. in Computer Science** at ENS de Lyon, France (2016–2018)
- **B.A. (Edu) in Mathematics Education** at Ganesha University of Education Singaraja, Indonesia (2010–2014)
- Elementary & High School, in Singaraja, Bali, Indonesia (1998–2010)

Homeland



**Alasanger
Village**

**Bali,
Indonesia**



Educational background



Elementary



Junior high school



Senior high school



Universitas
Pendidikan
Ganesha

Road to France

July 2014 (BSc in
Mathematics Education of
Ganesha Univ. of Education



March 2015 (Hanoi, Vietnam)

September 2015 (scholarship
from Ministry of Finance)

February 2016 (LoA for Master
in CS of ENS de Lyon)

2016-2018 (MSc in CS of ENS
de Lyon)

May 2017 (11 weeks internship
in G-SCOP Lab Grenoble,
in Graph Theory)

October 2018 (start of PhD)
Scholarship from CDSN
(Contrats Doctoraux
Spécifique Normalien)

Publications

1. 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, 2021 (published in European Journal of Combinatorics).
2. M. Pilipczuk, N. L. D. Sintiari, S. Thomassé, and N. Trotignon, **“(Theta, triangle)-free and (even hole, k_4)-free graphs. Part 2: Bounds on treewidth”**, CoRR, vol. Abs/2001.01607, 2021 (published in Journal of Graph Theory).
3. 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, 2020 (published in Journal of Graph Theory).



Talks

1. e-PCC Seminar Series (online, April 2021)
“A survey on even-hole-free graphs (60 minutes)”
2. 22e Journées Graphes et Algorithmes (online, November 2020)
“On the treewidth of even-hole-free graphs (20 minutes)”
3. 21e Journées Graphes et Algorithmes, Bruxelles, Belgium (November 2019)
“Layered wheels (20 minutes)”
4. 4th International Conference in Graph Theory and Information Security,
Jember, Indonesia (July 2019)
“Problems around even-hole-free graphs (15 minutes)”
5. 9th International Conference on Graph Theory, Bled, Slovenia (June 2019)
“Layered wheels (20 minutes)”
6. Workshop on Even-Hole-Free Graphs, Belgrade, Serbia (April 2019)
“Even-hole-free graphs of large treewidth (30 minutes)”



Teaching (*Activité Complémentaire Enseignement*)

- 1.Information Theory (Master) Fall 2020
- 2.Performance Analysis and Network (Master) Fall 2020
- 3.Introduction to Computer Science (Master) Fall 2020
- 4.Probability (Bachelor)
- 5.Information Theory (Master)
- 6.Cryptography and Security (Master)
- 7.Optimization and Approximation (Master)



Doctoral Training (*Formation Doctorale*)

1. Français langue étrangère CFLE 9223 Oral B1 (Centre de langue, ENS Lyon) - Formation à l'Insertion Professionnelle (22h)
2. Français langue étrangère CFLE 9204 B2 (Centre de langue, ENS Lyon) - Formation à l'Insertion Professionnelle (22h)
3. Cryptography and Security (M1 Informatique, ENS Lyon) - Formation Scientifique Complémentaire (20h)
4. Writing good scientific articles in English (LIP, ENS Lyon) - Formation à l'Insertion Professionnelle (7h)
5. Ecole Jeunes Chercheuses et Chercheurs en Informatique Mathématiques (EJCIM) - Formation Scientifique Complémentaire (16h)
6. B21 Cours de Français: Vivre en France (3 niveaux) / MOOC Formation à l'Insertion Professionnelle (44h)



Journal reviews/referees

1. Discrete Mathematics
2. Journal of Graph Theory
3. Electronic Journal of Combinatorics
4. Electronic Journal of Graph Theory and Applications



Scientific dissemination

1. **22e Journées Graphes et Algorithmes** (online due to COVID-19 November 2020)
2. **École de Jeunes Chercheurs en Informatique Mathématique 2020** (online, June 2020)
3. **ANR Digraph first meeting**, Cabasse, France (January 2020)
4. **21e Journées Graphes et Algorithmes**, Bruxelles Belgium (November 2019)
5. **Bordeaux Graph Workshop**, Talence, France (October 2019)
6. **Conference in Graph Theory: A Tribute to Frédéric Mafray**, Grenoble, France (September 2019)
7. **4th International Conference in Graph Theory and Information Security**, Jember, Indonesia (July 2019)
8. **9th International Conference on Graph Theory**, Bled, Slovenia (June 2019)
9. **Workshop on Even-Hole-Free Graphs**, Belgrade, Serbia (April 2019)
10. **20e Journées Graphes et Algorithmes**, Grenoble, France (November 2018)
11. **10th International Colloquium on Graph Theory and Combinatorics**, Lyon, France (July 2018)
12. **6th Seminar of Project ANR STINT**, Saint-Maurice en Valgaudemar, France (July 2017)

What I learnt ?

Work-life balance

Academic

Passion on research

Plan what will be done during 3-year PhD

Make a **dissertation plan** as early as possible

Time-management

Teaching, seminar, conferences, research visit, formation doct.

Publication

Start writing your dissertation

Do not procrastinate !
Make a list of **priority**

Non-academic

Financial planning

Sport, entertainment

Social life

Enough rest (physically & mentally)

Difficulties (my case)

Homesickness (family)
Covid-19

↓
Low stress management

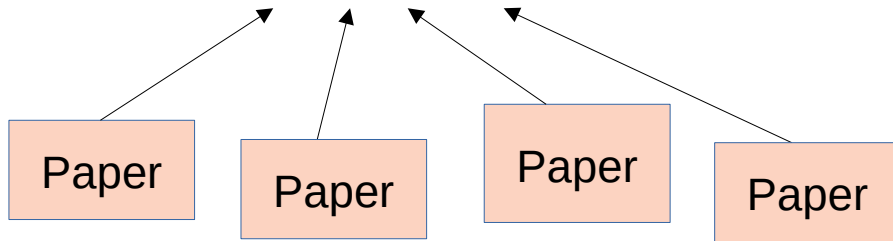
COMMUNICATION
(especially with your supervisor!)

Seek for help,
anytime you need !

Writing Thesis/Dissertation

Dissertation

What is it? → Formal research document that reflects the research process conducted for 3 years.

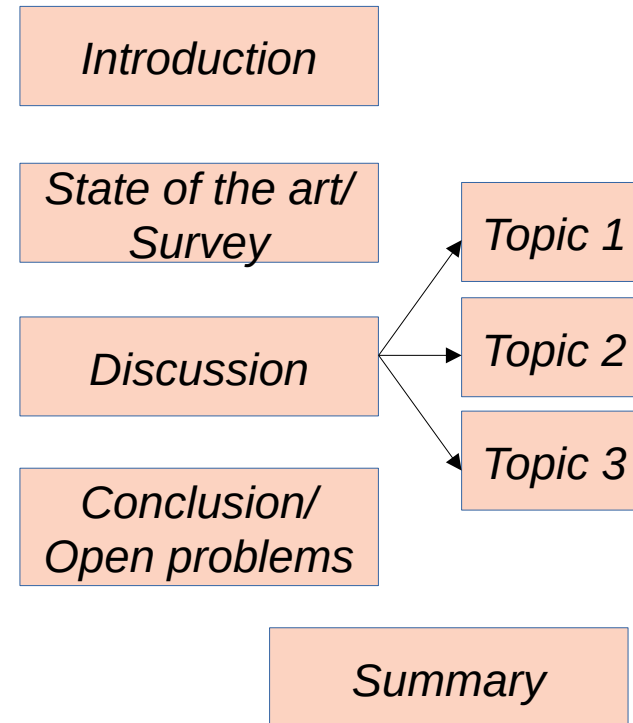


Find a **connecting line**

**Start writing
as early as possible**

**Have a look at dissertations
on our research area**

COMMUNICATE *with your supervisor!*



Introduction

1. A brief background to the study
2. A problem statement
3. Your research questions
4. The significance of your study

State of the art

1. Related concept and preliminary research
2. A brief survey on the known results. I included a summary on each result, written in my own way.

Title: *Width parameters on even-hole-free graphs*

1.1. What is Graph Theory

- *Brief introduction to graphs*
- *An interesting example of the importance of graphs*
- *A piece of history of graph*
- *More advanced applications of graphs (e.g. why algorithms on graphs are important?)*

These are written in a way that a non graph theorist *could grab at least the general idea of our dissertation*

1.2. Literature Review

- *Some important graph problems (related to the subject)*
- *Important definitions (relate them to real-world problem)*
- *Research motivation & problem statements, significance of the study*

1.3. Terminology

1.4. Main contributions of the thesis

Avoid plagiarism!

Discussion

1. A brief introduction to each topic;
2. Should not just copy-paste the paper, modify some parts if necessary;
3. One paper does not define one chapter. But it can be included in several chapters (depending on how the chapters are organized in the dissertation).

Conclusion

1. A brief summary on what have been discussed in the previous chapters
2. State interesting open problems, and possibly an approach toward the problems that we have tried.



