

# Arnasli Yahya

*PhD Student, Budapest  
University of  
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## Education

- 2020–Present **PhD**, *Budapest University of Technology and Economics*, Hungary.  
CGPA - 4.94 / 5.00 | Research Topics: Sphere packings, surfaces, and discrete transformation groups in Thurston Geometries, (Supervisor: Dr. habil. Jenő Szirmai)
- 2014–2016 **Master**, *Institut Teknologi Bandung*, Indonesia.  
GPA - 3.50 / 4.00 | Master Programs in Mathematics | Major : Analysis and Geometry
- 2008–2013 **Bachelor**, *Universitas Negeri Semarang*, Indonesia.  
GPA - 3.53 / 4.00 | Bachelor Programs in Mathematics Education

## Professional Affiliations

- 2020–Present **PhD Researcher**, *Budapest University of Technology and Economics (BME)*, Faculty of Sciences, Department of Geometry.
- 2021–Present **Assistant Professor (Asisten Ahli)**, *Institut Teknologi Bandung (ITB)*, Faculty of Mathematics and Natural Sciences.  
Analysis and Geometry Research Group

## Publications

- Yahya, Arnasli and Szirmai, Jenő. *Optimal Ball and Horoball Packings Generated by Simply Truncated Coxeter Orthoschemes with Parallel Faces in Hyperbolic  $n$ -space for  $4 \leq n \leq 6$* , (2023) *Arxiv preprint* <https://doi.org/10.48550/arXiv.2305.05605>
- Yahya, Arnasli. "On The Problem of The Best Circle to Discontinuous Group in Hyperbolic Plane", *Mathematical Communications*. (28) (2023):121-140.
- Szirmai, Jenő and Yahya, Arnasli. "Optimal ball and horoball packings generated by 3-dimensional simply truncated Coxeter orthoschemes with parallel faces", *Quaestiones Mathematicae*. 46 (5) (2023): 1017-1037 DOI: 10.2989/16073606.2022.2048317.

4. Yahya, Arnasli, and Szirmai, Jenő . *"Visualization of Sphere and Horosphere Packings Related to Coxeter Tilings by Simply Truncated Orthoschemes with Parallel Faces."* KoG (25) (2021): 64-71.
5. Yahya, Arnasli, and Soeharyadi, Yudi. *"Spektrum Operator Laplace pada Graf Torus."* Jurnal Riset dan Aplikasi Matematika (JRAM) (4.1) (2020): 35-49.

## Talks

1. October 2022, International Conference on Mathematics, Sciences, and Educations, *"On Problem of Optimal Horosphere Packings Arrangements generated by 3 and 4 dimensional simply truncated Coxeter orthoschemes with parallel faces"*, Semarang State University, Indonesia (Invited Speaker).
2. April 2022, Department of Geometry Seminar, *" Interesting Locally Optimal Ball and Horoball Arrangements in n-dimensional Hyperbolic Spaces "*, Budapest University of Technology and Economics, Hungary.
3. November 2021, Interdisciplinary Doctoral Conference, *"The structure of simply truncated Coxeter orthoscheme tilings with parallel faces and their optimal ball and horoball packing configurations"*, University of Pecs, Hungary.
4. September 2021, Scientific Professional Colloquium on Geometry and Graphics, *"Visualization of Sphere and Horosphere Packings Related to Coxeter Tilings by Simply Truncated Orthoschemes with Parallel Faces"*, Ciovo Island, Croatia.

## Teachings

### (ITB)

1. **Mathematics 1A:** (1- 2017/2018, 2018/2019, 2019/2020)
2. **Mathematics 2A:** (2- 2017/2018, 2018/2019, 2019/2020)
3. **Matrices and Vector Spaces** (1- 2018/2019, 2019/2020)
4. **Mathematics 3** (2- 2018/2019, 2019/2020)
5. **Introduction to Real Analysis** (3- 2018/2019)

### (BME)

1. **Basic Mathematics 2A: Algebra Part** (Spring, 2020/2021)
2. **Basic Mathematics 1A: Geometry Part** (Winter, 2021/2022)
3. **Analysis 1 for Engineering** (Winter, 2022/2023)
4. **Mathematics A2: Vector Functions** (Spring, 2022/2023)

## Awards / Honours, Scholarships

1. Strommer Gyula Award 2023
2. DAAD Short Research Grant 2023
3. Stipendium Hungaricum Scholarship 2020 (PhD study)

4. Fresh Graduate DIKTI Indonesian Government 2014 (Master study)

## ■ Research Schools / Workshops

1. BIRS-IMAG workshop "Minimal Surfaces in Symmetric Spaces", University of Granada, Spain, May 21 to 26, 2023 *Funded* (Invited Participant)
2. Seams School "Topic on Matrix Analysis", University of the Philippines Diliman, Philippines, June 28 to July 07, 2016. *Funded*
3. Seams School "Mathematical and Numerical Modelling for Wave Dynamics", Institut Teknologi Bandung, Indonesia, June 02 to 09, 2016 *Funded*