

# Arnasli Yahya

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## Education

- 2020–  
Current **PhD Degree**, *Budapest University of Technology and Economics*, Hungary.  
Major : Hyperbolic Geometry
- 2014–2016 **Master Degree**, *Institut Teknologi Bandung*, Indonesia.  
GPA - 3.50 / 4.00 | Master Programs in Mathematics | Major : Analysis and Geometry
- 2008–2013 **Bachelor's Degree**, *Universitas Negeri Semarang*, Indonesia.  
GPA - 3.53 / 4.00 | Bachelor Programs in Mathematics Education

## Publications

1. Yahya, Arnasli, and Jenő Szirmai. "Visualization of Sphere and Horosphere Packings Related to Coxeter Tilings by Simply Truncated Orthoschemes with Parallel Faces." *KoG* 25.25 (2021): 64-71.
2. Jenő Szirmai Arnasli Yahya, "Optimal ball and horoball packings generated by 3-dimensional simply truncated Coxeter orthoschemes with parallel faces", *Quaestiones Mathematicae*,(2022) DOI: 10.2989/16073606.2022.2048317.
3. Yahya, Arnasli. "Spektrum Operator Laplace pada Graf Torus." *Jurnal Riset dan Aplikasi Matematika (JRAM)* 4.1 (2020): 35-49.

## Seminars / Talks

1. 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.
2. 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.

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## Professional Affiliation

2016– **Institut Teknologi Bandung (ITB)**, *Faculty of Mathematics and Natural Sciences*, Analysis and Geometry Research Group, Junior Lecturer.

2020– **Budapest University of Technology and Economics (BME)**, *Faculty of Sciences*, Department of Geometry, PhD Researcher.

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## Teaching

### (ITB)

1. **Mathematics 1A** (Calculus and Analytic Geometry) : Real Number, Limit, Derivative, Integral, Transcendental Functions, Ordinary Differential Equations. (2017/2018)
2. **Mathematics 2A** (Calculus and Analytic Geometry) : Infinity Series, Vector values functions, Geometry of  $R^3$ , Limit and Continuity of Multivariable functions, Derivative, Multiple Integral, Second Order Differential Equations. (2018/2019)
3. **Matrices and Vector Spaces** : Linear System, Matrices Operations, Determinant, Vector Spaces, Inner Product Spaces, Eigen values and Eigen spaces, General Linear Transformations, Isomorphism and Similarity (2018/2019)
4. **Calculus 3** : Curves in  $R^n$ , Surfaces in  $R^n$ , Line Integrals, Surfaces Integrals, Stokes Theorem, Divergence Theorem, Gaussian Curvature. (2018/2019)
5. **Introduction to Real Analysis**: Real Numbers, Sequences and Series, Limits, Continuous Functions, Differentiations, The Riemann Integrals, Sequences of Functions. (2019/2020)

### (BME)

1. **Basic Mathematics 2A: Algebra Part** (2020/2021)
2. **Basic Mathematics 1A: Geometry Part** (2021/2022)