CURRICULUM VITAE

❯ **Name:** Lalu Riski Wirendra Putra

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Ringkasan Diri

I am a fresh graduate in mathematics with project experience in algebraic graph theory and chemical graph theory. I focus on linking linear algebra, graphs, and other fields, especially chemistry. The research that I have done in recent years is related to the energy of the representation graph of some groups and rings.

Pendidikan

2021– 2025	**University Student**	University of Mataram
		5Universitas Mataram

❯ Thesis Title: Energy *Degree Sum* of Nilpotent Graphs of Modulo Integer Fields with Prime Number Order

2018 – 2021	**High school student**	SMA Negeri 4 Praya

Fields

❯ Ring and Module Theory

❯ Linear Algebra

❯ Topological Indices on Graph Theory

❯ Graph Energy and Spectral Theory

❯ Metric Spaces

Publications

2025	**Energy of Graph**	Journal of the Indonesian Mathematics Society

❯ Putra, L. R. W., Albaracin, J. R., & Wardhana, I. G. A. W. (2025). On Sombor Energy of the Nilpotent Graph of the Ring of Integers Modulo . Journal of the Indonesian Mathematical Society, 31(3), 1856–1856.

2025	**Metric Space**	Eigen Mathematics Journal

❯ Putra, L. R. W., Aini, Q., & Alfian, M. R. (2025). The Extended Metric Space on Max–Plus Algebra. EIGEN MATHEMATICS JOURNAL, 8(1), 712. https://doi.org/10.29303/emj.v8i1.254

| 2025 | **Topological Indices** | Prosiding SAINTEK |

❯ Awanis, Z. Y., Miftahurrahman, M., Putra, L. R. W., Pratama, R. B., & Siboro, A. M. (2025). ANALISIS INDEKS ZAGREB PADA GRAF MOLEKULER KIMIA DALAM BERAGAM GRUP HINGGA. Prosiding SAINTEK, 7, 19-25.

| 2025 | **Topological Indices** | Prosiding SAINTEK |

❯ Pratiwi, L. F., Aini, Q., Alfian, M. R., & Putra, L. R. W. (2025). EKSPLORASI INDEKS GUTMAN PADA GRAF MOLEKULER BERBASIS GRUP HINGGA. Prosiding SAINTEK, 7, 12-18.

| 2024 | **Topological Indices** | Proceedings of Science and Mathematics |

❯ Putra et al. 2024. "Topological Indices of Coprime Graph of Generalized Quaternion Group". Proceedings of Science and Mathematics Faculty Science Universiti Teknologi Malaysia. 17. 53-58.

| 2023 | **Graph Representaion of a Group** | BAREKENG |

❯ Putra, L.R.W., et al. 2023. "The Power Graph Representation For Integer Modulo Group With Prime Power Order". BAREKENG: Journal of Mathematical and Applied Sciences. 17(3). 1393-1400.

❯❯❯ Conferences and Seminars

| Desember 2024 | **Presenter** | Universitas Islam Negeri Walisongo |

❯ International Conference on Mathematics and Mathematics Education (ICMME) 2024

| July 2024 | **Presenter** | Ganesha University of Education |

❯ Presented at the Bali NUSRA national seminar on mathematics

| June 2024 | **BestPresenter** | Universiti Teknologi Malaysia |

❯ Achieved best presenter title in the AIAS(AAAG International Algebra Seminar)
❯ I presented a topic on *Topological Indices of Coprime Graph of Generalised Quaternion Group*

| February 2024 | **Presenter** | Lambung Mangkurat University |

❯ National Seminar on Mathematics and Applied(SEMNAS MANTAP) 2024

| December 2023 | **Presenter** | University of Mataram |

❯ Presenting article entitled "On Degree Sum Energy of Nilpotent Graph of the Ring of Integer Modulo with Prime Power Order"
❯ *First Joint IIIMT-Algebra Forum Conference 2023: International Conference on Algebra and Its Applications*

| February 2023 | **Presenter** | Intitut Teknologi Bandung |

❯ Presenting article entitled"Supremum Image of Lower Semi-Continous Function from Above"
❯ *8th International of Mathematics and Natural Science(ICMNS)*

| October 2022 | **Committee** | University of Mataram |

❯ Become a Committee of Symposium Algebra 2022
❯ Became the committee of National Conference on Mathematics(KNM) XXI

❱❱❱ Research Projects

❱ Lalu Riski Wirendra Putra, Jimboy R. Albaracin, and I Gede Adhitya Wisnu Wardhana. 2024. "On Sombor Energy of the Nilpotent Graph of the Ring of Integers Modulo ε".

❱ Lalu Riski Wirendra Putra, Nor Haniza Sarmin, and I Gede Adhitya Wisnu Wardhana. 2024. "Characteristic Polynomial and Energy of Matrices Associated with Power Graphs of Cyclic Groups of Prime Power Order".

❱ Lalu Riski Wirendra Putra and I Gede Adhitya Wisnu Wardhana. 2024. "On Degree Sum Energy of Nilpotent Graf of Ring Integer Modulo with Prime Power Order".

❱❱❱ Achievments

July 2024	**SEAMS School 2024 Awardee**	Diponegoro University

❱ SEAMS School 2024 is a summer school event organised by SEAMS (South East Asian Mathematics Society) with the topic "Derivation on Rings and Modules and its Applications"
❱ The event took place from 1 – 19 July 2024.

May 2024	**ONMIPA-PT 2024**	Hasanudin University

❱ Finalist of National Olympiad MIPA Perguruan Tinggi 2024

2023	**ONMIPA-PT 2023**	Institut Teknologi Bandung

❱ Finalist of National Olympiad MIPA Perguruan Tinggi 2023
❱ 1st place ONMIPA-PT 2023 Level University of Mataram

❱❱❱ Organization Experiences

2024	**Chairman of Student Executive Board of the Faculty of Mathematics and Natural Sciences, Universitas Mataram**
2023	**Chairman of Gamatika Research Club, Department of Mathematics, Faculty of Mathematics and Natural Science, Universitas Mataram**
2022	**Vice Chairman of Gamatika Research Club, Department of Mathematics, Faculty of Mathematics and Natural Science, Universitas Mataram**