Staff Handbook

Please fill out and submit one table per person.

Name	*Endah Retnowati*		
Post	*Mathematics Education*		
Academic career	*Undergraduate degree (Subject: Education)* *Master Degree (Subject: Education)* *Undergraduate Degree (Subject: Mathematics Education)*	*University of New South Wales (UNSW), Australia* *Universitas of New South Wales (UNSW), Australia* *Universitas Negeri Yogyakarta (UNY), Yogyakarta*	*2014* *2008* *2002*
Employment	*Position: Lecturer*	*Employer: UNY*	*Period: 2002 - Current*
Research and development projects over the last 5 years	1. *Pengaruh Pemberian Growth Mindset dan Spacing Effect pada Pembelajaran Matematika berbasis Worked Example terhadap Kemampuan Retensi, Transfer, Cognitive Load dan Self-efficacy* ***Year: 2025*** ***Funding: Rp37.610.000*** 2. *Pengaruh Self-Explanation dengan Mastery Goal Orientation dalam Pembelajaran Geometri Berbasis Worked Example terhadap Kemampuan Transfer dan Cognitive Load* ***Year: 2025*** ***Funding: Rp37.130.000*** 3. *Model Motivasi berorientasi Performa dalam Pembelajaran Matematika Berbasis Worked Example* ***Year: 2025*** ***Funding: Rp55.000.000*** 4. *Pengaruh Afirmasi Efikasi dalam Pembelajaran Matematika Kolaboratif untuk Novices terhadap Kemampuan Transfer dan Efikasi Diri* *Year: 2025* *Funding: Rp18.000.000* 5. *Pengembangan Instrumen Pengukuran Workload Mahasiswa UNY* ***Year: 2024*** ***Funding: Rp20.000.000*** 6. *Pengaruh Afirmasi Positif dalam pembelajaran Matematika Berbasis Worked Example terhadap Kemampuan Transfer, Cognitive Load, dan Kecemasan Matematis* ***Year: 2024*** ***Funding: Rp27.880.310*** 7. *Desain Pembelajaran Berbasis Worked Example dengan Metode Tracing dalam Materi Geometri yang Berorientasi pada Kemampuan Transfer* ***Year: 2024*** ***Funding: Rp50.840.000***		

	8. *Model Multimedia Learning berbasis Cognitive Load Theory pada Pembelajaran Matematika Lanjut Berorientasi pada Self-efficacy dan Transfer Ability* ***Year: 2024*** ***Funding: Rp143.103.305*** 9. *Model Motivasi ARCS dalam Pembelajaran Matematika Berbasis Worked Example* ***Year: 2024*** ***Funding: Rp45.018.918*** 10. *Pengaruh Tingkat Pengetahuan Awal dalam Pembelajaran Matematika Strategi Productive Failure terhadap Kemampuan Transfer dan Efikasi Diri* ***Year: 2024*** ***Funding: Rp24.000.000*** 11. *Pemetaan Tema Tugas Akhir Mahasiswa Sarjana, Magister, dan Doktor Pendidikan Matematika* ***Year: 2023*** ***Funding: Rp20.000.000*** 12. *Efektivitas Metode Interleaving dalam Pembelajaran Matematika ditinjau dari Kemampuan Pemecahan Masalah dan Cognitive Load* ***Year: 2023*** ***Funding: Rp15.000.000*** 13. *Eksplorasi Prototipe Mobile Learning Pembelajaran Matematika SMP berbasis Cognitive Load Theory sesuai Kurikulum Merdeka* ***Year: 2023*** ***Funding: Rp25.200.000*** 14. *Pengembangan Perangkat Pembelajaran Berbasis Pendidikan Matematika Realistic Berorientasi Pada High Order Thinking Skll (HOTS), Kemampuan Literasi Matematika dan Sikap Terhadap Matematika SMP* ***Year: 2023*** ***Funding: Rp50.000.000*** 15. *Pengembangan Prototype Model Pembelajaran Matematika Berbasis Cognitive Load Theory sesuai Kurikulum Merdeka SMP* ***Year: 2023*** ***Funding: Rp20.000.000*** 16. *Pengaruh Strategi Urutan Pasangan Worked Example-Problem Solving Pada Pembelajaran Matematika Multimedia terhadap Kemampuan Retensi, Transfer, dan Self-efficacy* ***Year: 2023*** ***Funding: Rp23.200.000*** 17. *Desain Pembelajaran berbasis Worked Example dengan Metode Tracing dalam Materi Geometri yang Berorientasi pada Kemampuan Transfer* ***Year: 2023*** ***Funding: Rp46.500.000*** 18. *Model Multimedia Learning berbasis Cognitive Load Theory pada Pembelajaran Matematika Lanjut Berorientasi pada Self-efficacy dan Transfer Ability* ***Year: 2023*** ***Funding: Rp154.300.000*** 19. *Efektivitas Pembelajaran Matematika dengan Metode Worked Example dan ARCS Model ditinjau dari Transfer Ability, Cognitive Load dan Motivasi Siswa SMK* ***Year: 2023*** ***Funding: Rp19.400.000***

	20. *Pengaruh Metode Productive Failure dalam Pembelajaran Matematika Kolaboratif terhadap Kemampuan Transfer dan Efikasi Diri* ***Year: 2023*** ***Funding: Rp24.000.000*** 21. *Efektivitas Strategi Spacing Effect Pembelajaran Matematika Worked Example ditinjau dari Kemampuan Transfer, Cognitive Load, dan Self-Efficacy* ***Year: 2022*** ***Funding: Rp29.400.000*** 22. *Efektivitas Metode Urutan Worked Example dalam Pembelajaran Matematika Ditinjau dari Tingkat Kognitif dan Self-efficacy Siswa* ***Year: 2022*** ***Funding: Rp20.500.000*** 23. *The effect of Productive Failure on Mathematics More-Knowledgable Students* ***Year: 2022*** ***Funding: Rp24.000.000*** 24. *Evaluasi Relevansi Kurikulum Program Magister dan Sarjana di Jurusan Pendidikan Matematika FMIPA UNY dengan ERA 4.0* ***Year: 2022*** ***Funding: Rp25.000.000*** 25. *Perbedaan Efektivitas Strategi Pembelajaran Matematika Kolaboratif: Worked Example vs. Goal-free Problems* ***Year: 2022*** ***Funding: Rp50.000.000*** 26. *The Cognitive Load Portrait of Mathematics Teacher during Covid-19 Pandemic* *Year: 2021* *Funding: Rp18.000.000* 27. *Modalitas Psikologis Guru dalam Mengaplikasikan Model Pembelajaran Daring: Perspektif Cognitive Load Theory* ***Year: 2020*** ***Funding: Rp20.022.000*** 28. *Faktor-faktor yang Mempengaruhi Motivasi Mahasiswa Menjadi Guru Matematika* ***Year: 2020*** ***Funding:*** 29. *Peningkatan Kompetensi Pedagogik Guru dalam Mengembangkan Keterampilan Berpikir Tingkat Tinggi Siswa melalui Lesson Study Pembelajaran Matematika Berbasis Masalah* ***Year: 2019*** ***Funding: Rp10.000.000*** 30. *Pembelajaran Matematika Secara Kolaboratif: Worked Example First vs. Problem Solving First* *Year: 2019* *Funding: Rp18.000.000* 31. *Peningkatan Kemampuan Berpikir Kritis dalam Perkuliahan Landasan Psikologis Pendidikan Matematika melalui Blended Learning* ***Year: 2018*** ***Funding: Rp7.500.000*** 32. *Peningkatan Kemampuan Pemecahan Masalah Siswa Melalui Lesson Study Pembelajaran Matematika Berbasis Masalah dengan Pendekatan Worked Example*

	Year: 2018 ***Funding: Rp9.000.000*** 33. *Profil Kecemasan Siswa terhadap matematika* ***Year: 2018*** ***Funding: Rp15.000.000*** 34. *Pengaruh Pengaturan Element-Interactivity dalam Goal-Free Problems terhadap Keefektifan Pembelajaran Matematika Kolaboratif* ***Year: 2017*** ***Funding: Rp20.000.000*** 35. *Evaluasi Skema Pencapaian Kompetensi Sebagai Panduan Penyusunan Rencana Pelaksanaan Pembelajaran Matematika SMA Sesuai Kurikulum 2013* ***Year: 2017*** ***Funding: Rp10.000.000*** 36. *Pengembangan Skema Pencapaian Kompetensi Lulusan Program Studi Pendidikan Matematika* ***Year: 2017*** ***Funding: Rp10.000.000*** 37. *Peningkatan Kompetensi Pedagogik Guru melalui Lesson Study Pembelajaran Matematika Berbasis Masalah dengan Pendekatan Worked Example* ***Year: 2017*** ***Funding: Rp7.500.000*** 38. *Efektivitas Pembelajaran Matematika Kolaboratif Berdasarkan Cognitive Load Theory* ***Year: 2016*** ***Funding: Ro20.000.000*** 39. *Pengembangan Skema Pencapaian Kompetensi Pembelajaran Matematika SMA Sesuai Kurikulum 2013* ***Year: 2016*** ***Funding: Rp10.000.000*** 40. *Pola Respon Instrumen Minat Berbasis Teori Holland* ***Year: 2016*** ***Funding: Rp17.500.000***
Industry collaborations over the last 5 years	1. *Workshop Penguatan Keterampilan Bermatematika dan Strategi Memotivasi Siswa bagi Guru-Guru Matematika SMP Kabupaten Kulon Progo* 2. *Modul Ajar dan Lembar Kerja Berorientasi pada Kemampuan Numerasi sebagai Pengembangan Profesionalitas Guru Matematika SMP Kabupaten Kudus* 3. *Reviu Kurikulum Prodi berdasarkan Prinsip Outcome-Based Education (OBE) sebagai Persiapan Mengikuti Akreditasi Internasional* 4. *Penelaahan Sistem Mutu Pembelajaran pada Program Studi S1 di IAIN Ponorogo* 5. *Peningkatan TPACK Guru Sekolah Indonesia Riyadh melalui Pengembangan Media Pembelajaran Berorientasi Pada Kemampuan Literasi Dan Numerasi* 6. *Workshop Pengembangan Strategi Pembelajaran Matematika untuk Meningkatkan Kemampuan Literasi/Numerasi Siswa bagi Guru-guru Matematika SMP di Kabupaten Kulon Progo* 7. *Modul Ajar dan Lembar Kerja Berorientasi Pada Kemampuan Literasi dan Numerasi sebagai Pengembangan TPACK Guru Matematika SMA Wonogiri* 8. *Modul Ajar dan Media Digital Berorientasi Pada Kemampuan Literasi dan Numerasi sebagai Pengembangan TPACK Guru Matematika SMA Sleman*

	9. *Peningkatan TPACK Guru Sekolah Indonesia Jeddah melalui Pengembangan Media Pembelajaran Berorientasi Pada Kemampuan Literasi dan Numerasi* 10. *Sarasehan Permenristekdikti 53 Tahun 2023 Menuju Budaya Mutu Internasional* 11. *Pendampingan Penyusunan Modul Ajar Kurikulum Merdeka bagi Guru Matematika SMP Kabupaten Kulon Progo.* 12. *Pelatihan Guru Profesional dalam Penyusunan Media Digital Pembelajaran Matematika yang Inovatif, Interaktif, dan Meningkatkan Pemahaman Matematis* 13. *Pelatihan Penyusunan Media Pembelajaran Matematika Daring yang Inovatif, Interaktif, dan dapat Meningkatkan Pemahaman Matematis* 14. *Workshop Penyusunan Perangkat Pembelajaran Online bagi Guru Matematika SMP Kabupaten Kulon Progo* 15. *Pelatihan Pengembangan Desain Pembelajaran Matematika berdasarkan Cognitive Load Theory* 16. *Workshop Pengembangan Soal Literasi Matematika bagi Guru Matematika SMP di Kabupaten Kulon Progo* 17. *Pengembangan Lembar Kerja Siswa Berdasarkan Cognitive Load Theory dalam Pembelajaran Aljabar SMP* 18. *Workshop Pengembangan Model Pembelajaran berbasis Teori Kecerdasan Majemuk bagi Guru-Guru Anggota MGMP Matematika SMP di Kabupaten Kulon Progo* 19. *Pelatihan Penyusunan LKS Berbantuan Geogebra untuk Pengembangan Kemampuan Pemecahan Masalah* 20. *Pengembangan Lembar Kerja Siswa Berdasarkan Cognitive Load Theory dalam Pembelajaran Geometri SMP* 21. *Pelatihan Geogebra 2D dan 3D untuk Meningkatkan Kemampuan Teknologi Informasi Guru di DIY dalam Pembelajaran Matematika*
Patents and proprietary rights	1. *Modul Ajar Matematika SMP & SMA berbasis Multimedia Worked Example (2025)* 2. *Modul Ajar Matematika SMP & SMA berbasis Worked Example (2025)* 3. *Video Pembelajaran Koordinat Cartesius dalam Format Split Attention (2025)* 4. *Video Pembelajaran Koordinat Cartesius dalam Format Terintegrasi (2025)* 5. *Modul Ajar Matematika SMP & SMA berbasis Multimedia Worked Example dan Teori Motivasi (2025)* 6. *Modul Ajar Matematika SMP & SMA berbasis Worked Example dan Teori Motivasi (2025)* 7. *Worked Example Pairs pada Siswa Expert dan Novice (2024)* 8. *Pemberian Motivasi Prompt pada Desain Pembelajaran berbasis Worked Example dengan Self-Explanation (2004)* 9. *Analysis: Effectiveness of Collaborative Strategies based on Open-Ended Problems (2024)* 10. *Keberagaman Isi Faded Example dan Strategi Pengelompokan dalam Pembelajaran Geometri (2024)* 11. *Integrasi Social Persuasion Multimedia Worked Example dalam Pembelajaran geometri (2024)* 12. *Pembelajaran Matematika Goal Free Probelsm dengan Guided Question (2024)* 13. *Social Persuasion pada Pasangan Contoh-Masalah untuk Mengoptimalkan Worked Memory Siswa (2024)* 14. *Infographic Poster to Empower Growth Mindset in Mathematics Learning (2024)* 15. *Social Persuasion dalam Pembelajaran Goal Free Problems (2024)*

	16. *Social Persuasion dalam Pembelajaran Goal Free Problems (2024)* 17. *Mastery Approach Endorsment in Complex Task: A Cognitive Load Theory Approach (2024)* 18. *Social Persuasion in Variability Worked Example: Is It Adventageous? (2024)* 19. *Pengenalan Liveworksheets.com (2024)* 20. *Model Pembelajaran Aritmatika Sosial: Worked Example dan Problem Posing (2024)* 21. *Worked Example or Goal-Free Problem? (2024)* 22. *Worked Example Terintegrasi Tracing Method (2024)* 23. *Desain Penelitian Pengaruh Afirmasi Positif dalam Pembelajaran Matematika Berbasis Worked Example (2024)* 24. *Desain Penelitian Pengaruh Cerita Growth Mindset dalam Pembelajaran Worked Example (2024)* 25. *Multimedia Process-Oriented Worked Example pada Materi Pengukuran Bangun Ruang (2024)* 26. *Pembelajaran Matematika SMA/MA Berbasis Web Seri 2 (2024)* 27. *Desain Worked Example Pembelajaran Integral Parsial Pendekatan Deduktif atau Induktif? (2024)* 28. *Desain Penelitian Metode Interleaving Berbasis Cognitive Load Theory untuk Mengembangkan Mathematical Proficiency Siswa (2024)* 29. *Desain Pembelajaran Berbasis Worked Example Terintegrasi Model Motivasi ARCS (2024)* 30. *PKM Modul Ajar dan Lembar Kerja Berorientasi pada Kemampuan Numerasi sebagai Pengembangan TPACK Guru MGMP Matematika SMA Kabupaten Wonogiri (2024)* 31. *Molge(2023)* 32. *Modul Pembelajaran Turunan Fungsi Aljabar: Strategi Worked Example Tanpa Voicenote Group Whatsapp dan Strategi Worked Example dengan Voicenote Group Whatsapp (2021)* 33. *Modul Pembelajaran Bangun Ruang Sisi Datar Prisma dan Limas Pembelajaran Kelompok Model Examples Non Examples dan Pembelajaran Individu Model Examples Non Examples (2021)* 34. *Modul Pembelajaran Peluang Model Faded Example dan Worked Example (2021)* 35. *Modul Pembelajaran Hubungan antar Sudut Pendekatan Goal Free Problems dengan Strategi Self-Explanation dan Pendekatan Goal Free Problems Tanpa Strategi Self-Explanation (2021)* 36. *Modul Matematika Pembahasan Tes Kemampuan Transfer Siswa SMP dalam Menyelesaikan Masalah Geometri (2021)* 37. *Modul Garis Singgung Lingkaran dengan Pendekatan Worked Example untuk Kelas VIII SMP (2019)* 38. *Modul Peluang dengan Pendekatan Worked Example untuk Kelas VIII SMP (2019)* 39. *Modul Braille: Geometri Hubungan Sudut Akibat Garis-Garis Sejajar Dipotong Garis Transversal dengan Pendekatan Worked Example (2018)* 40. *Modul Pembelajaran: Skema Pencapaian Kompetensi Matematika SMP Berdasarkan Kurikulum 2013 (2018)* 41. *Modul Pembelajaran: Skema Pencapaian Kompetensi Matematika Wajib SMA berdasarkan Kurikulum 2013 (2018)* 42. *Modul Pembelajaran: Skema Pencapaian Kompetensi Matematika Peminatan SMA berdasarkan Kurikulum 2013 (2018)*

Important publications over the last 5 years	***International & National Journal Publications*** **1.** *Kurniawan, A. D & Retnowati, E. (2024). Apakah Kecemasan Siswa Menjadi Rendah dan Pemahaman Konsep Menjadi Tinggi? Pembelajaran Bilangan Negatif dengan Strategi Worked Example Garis Bilangan. Jurnal Pedagogi Matematika. http://dx.doi.org/10.30998/formatif.v6i1.748* **2.** *Ashshidiqi, M. F & Retnowati, E. (2024). Pengaruh Pembelajaran Guided Discovery Terhadap Kemampuan Penyelesaian Masalah Matematika dan Kepercayaan Diri Siswa. Jurnal Pedagogi Matematika. http://dx.doi.org/10.21831/jpm.v10i2.19572* **3.** *Retnowati, E & Nugraheni, N. (2024). Analisis Gaya Belajar Peserta Didik dalam Pembelajaran di Kelas. Jurnal Riset Pendidikan Dasar. https://dx.doi.org/10.30595/jrpd.v5i1.16151* **4.** *Anisa, R. & Retnowati, E. (2024). Pengaruh Metode Integrated Worked Example Terhadap Kemampuan Pemecahan Masalah dan Cognitive Load. Jurnal Pengembangan Pembelajaran Matematika. https://doi.org/10.14421/jppm.2024.61.14-26* **5.** *Julianingsih, E., Retnowati, E., & Ng, KT. (2024). A Worked Example Design with ARCS Motivational Model. Learning Science and Mathematics. https://myjms.mohe.gov.my/index.php/lsm/article/view/22179* **6.** *Octaviola, K & Retnowati, E. (2023). Pembelajaran Bangun Ruang dalam Goal-Free Problems secara Kolaboratif. Jurnal Pedagogi Matematika. http://dx.doi.org/10.21831/jpm.v9i3.18382* **7.** *Chen, O., Retnowati, E., Castro-Alonso, J. C., Paas, F., & Sweller, J. (2023). The Relationship of Interleaving and Variability Effects: A Cognitive Load Theory Perspective. Education Sciences. https://doi.org/10.3390/educsci13111138* **8.** *Chen, O., Retnowati, E. Chan, B. K. Y., & Kalyuga, S. (2023). The effect of worked examples on learning solution steps and knowledge transfer. Educational Psychology. 45(1). 1-15. https://doi.org/10.1080/01443410.2023.2273762* **9.** *Retnowati, E., & Fadlila, N. (2023). The Compound Area of Quadrilaterals and Triangles: A Worked Example Based Learning Design. Jurnal Teori dan Aplikasi Matematika 7(1), 150-159. https://doi.org/10.31764/jtam.v7i1.11678* **10.** *Agustin, A., Retnowati, E., & Ng, K. T. (2022). The Transferability Level of Junior High School Students in Solving Geometry Problems. Journal of Innovation in Educational and Cultural Research, 3(1), 59-69. https://doi.org/10.46843/jiecr.v3i1.57* **11.** *Lailiyah, S., Kusaeri, K., Retnowati, E., & Erman, E. (2022). A Ruppert's framework: How do prospective teachers develop analogical reasoning in solving algebraic problems?. JRAMathEdu (Journal of Research and Advances in Mathematics Education), 7(3). http://dx.doi.org/10.23917/jramathedu.v7i3.17527* **12.** *Azhari, A. M. N., Tze, K. T., & Endah, R. (2021). Effect of assessment for learning method on students' academic achievement in carpentry and joinery in technical colleges. International Scientific Electronic Journal, (4 (52)), 121-131. http://dx.doi.org/10.32744/pse.2021.4.8* **13.** *Nasir, S. M. M., Zamzamir, Z., Ali, R. M., Ramli, M. S., & Retnowati, E. (2021). Design and development of an isometric transformations game-based learning kit. Review of International Geographical Education Online, 11(4), 907-917.* **14.** *Abd Wahab, A. S., Chinnappan, M., & Retnowati, E. (2021). The Effects of Learning Integrals and Its Application Using Ti-Nspire Cx Graphing*

	Calculator's Towards Mathematics Pre-Service Teachers' Mathematical Reasoning. Review of International Geographical Education Online, 11(4), 881-890. **15.** *Purnama, P., & Retnowati, E. (2021). The effectiveness of goal-free problems for studying triangle similarity in collaborative groups. JRAMathEdu (Journal of Research and Advances in Mathematics Education), 6(1), 32-45. http://dx.doi.org/10.23917/jramathedu.v6i1.11198* **16.** *Chen, O., Retnowati, E., & Kalyuga, S. (2020). Element interactivity as a factor influencing the effectiveness of worked example–problem solving and problem solving–worked example sequences. British Journal of Educational Psychology, 90(S1), 210-223. https://doi.org/10.1111/bjep.12317* **17.** *Fitrianawati, M., Sintawati, M., Marsigit, & Retnowati, E. (2020). Developing ethnomatematics in geometry learning for elementary schools students: A preliminary design. International Journal of Scientific and Technology Research, 9(1), 2754-2758. https://www.ijstr.org/final-print/jan2020/Developing-Ethnomatematics-In-Geometry-Learning-For-Elementary-Schools-Students-A-Preliminary-Design-.pdf* ***International Conference*** **18.** *Rohman, Z & Retnowati, E. (2024). Can We Improve Transfer Skill through Isomorphisms: The Case of Proposition Topic?. AIP Conference Proceedings. 2622(2). 140002. https://doi.org/10.1063/5.0133774* **19.** *Inayah, I & Retnowati, E. (2024). ICT-Based Learning Media for Mathematics Learning Achievement and Positive Attitudes of High School Students. AIP Conference Proceedings. 2622(1). 090001. https://doi.org/10.1063/5.0133758* **20.** *Retnowati, E. (2024). Preface: The 5 th International Seminar of Innovation in Mathematics and Mathematics Education (5 th ISIMMED) and the 7 th International Seminar on Science Education (7 th ISSE). AIP Conference Proceedings.2622(1). 010001. https://doi.org/10.1063/12.0015165* **21.** *Nurjanah, A & Retnowati, E. (2024) Augmented Reality in the perspective of cognitive load theory. AIP Conference Proceedings. 2622(1). 090002. https://doi.org/10.1063/5.0134796* **22.** *Bariyah, K & Retnowati, E. (2024). How to Analyze Students' Logical-Mathematical Intelligence in Problem Solving Based on SOLO Taxonomy. AIP Conference Proceedings. 2622(1). 080010. https://doi.org/10.1063/5.0133822* **23.** *Amri, C & Retnowati, W. (2024). Some Isomorphic Problem in Proportion. AIP Conference Proceedings. 2622(1). 140009. https://doi.org/10.1063/5.0133474* **24.** *Aesa, L. K & Retnowati, E. (2024). Developing an Assessment Based on SOLO Taxonomy for Junior High School. AIP Conference Proceedings. 2622(1). 080007. https://doi.org/10.1063/5.0133854* **25.** *Kusuma, S & Retnowati, E. (2024). Multi-step Word Problem in Quadratic Equations to Facilitate Student's Mathematical Reasoning Ability. AIP Conference Proceedings. 2622(1). 140013. https://doi.org/10.1063/5.0133559* **26.** *Fukui, M., Miyadera, R., Ng, KT., Yunianti, W., Ng, JH., Chew, P., Retnowati, E., Choo, PL. Case Examplars in Digitally Transformed Mathematics with Suggested Research. AIP Conference Proceedings. 2954(1). 010007. https://doi.org/10.1063/5.0179721*

27. *Hilmi. I., Fadlila, N., & Retnowati, E. (2023). The Design of Goal-Free Problems to Learn Sine and Cosine Rules. AIP Conference Proceedings. 2733(1), 030036. https://doi.org/10.1063/5.0141561*
28. *Sari, A. K., Sugiman, & Retnowati, E. (2022). Google Classroom using worked example strategy: Its effectiveness on learning mathematics. AIP Conference Proceedings, 2575(1), 080003. https://doi/org/10.1063/5.0107863*
29. *Irfani, N., & Retnowati, E. (2022). Designs of worked example to facilitate retention and transfer capability in derivatives of algebraic functions. AIP Conference Proceedings, 2577(1), 020026. https://doi.org/10.1063/5.0096151*
30. *Septriwanto, J. V., Retnowati, E., & Rampean, B. A. O. (2021). Adapting solution: mathematical thinking abilities that facilitate problem solving ability in students. Journal of Physics: Conference Series, 1882(1), 012078. https://doi.org/10.1088/1742-6596/1882/1/012078*
31. *Kusuma, I. A., & Retnowati, E. (2021). Worked Example as a Scaffolding on Problem Posing Instruction of Parallel Lines and Transversal Learning. Proceedings od the 7th International Conference on Research, Implementation, and Education of Mathematics and Sciences (ICRIEMS 2020). Atlantis Press, pp. 391-395. https://doi.org/10.2991/assehr.k.210305.056*
32. *Widyastuti, B. W., & Retnowati, E. (2021) Effects of Worked Example on Experts' Procedural Skills in Solving Geometry Problems. Proceedings of the 7 th International Conference on Research, Implementation, and Education of Mathematics and Sciences (ICRIEMS 2020). Atlantis Press, pp. 338-343. https://doi.org/10.2991/assehr.k.210305.049*
33. *Kusuma, I. A., & Retnowati, E. (2021). Designs of faded-example to increase problem solving skills and procedural fluency in algebraic division. Journal of Physics: Conference Series, 1806(1), 012109. https://doi.org/10.1088/1742-6596/1806/1/012109*
34. *Kusuma, I. A. , & Retnowati, E. (2021). Faded-Example Effects in Individual or Group Work Settings. 10th International Conference on Educational and Information Technology (ICEIT). IEEE, pp. 204-208, https://doi.org/10.1109/ICEIT51700.2021.9375528*
35. *Asrafil, A., Retnawati, H., & Retnowati, E. (2020). The difficulties of students when solving HOTS problem and the description of students cognitive load after given worked example as a feedback. Paper presented at the Journal of Physics: Conference Series. https://doi.org/10.1088/1742-6596/1511/1/012092*
36. *Fitrianawati, M., Sintawati, M., Marsigit, & Retnowati, E. (2020). Analysis toward relationship between mathematical literacy and creative thinking abilities of students. Paper presented at the Journal of Physics: Conference Series. https://doi.org/10.1088/1742-6596/1521/3/032104*
37. *Maharani, N. A. D., & Retnowati, E. (2020). Schema of competencies for mathematics junior high school based in Indonesian curriculum. Paper presented at the Journal of Physics: Conference Series. https://doi.org/10.1088/1742-6596/1581/1/012047*
38. *Widjajanti, D. B., Listyani, E., & Retnowati, E. (2020). The profile of student math-anxiety. Paper presented at the Journal of Physics: Conference Series. https://doi.org/10.1088/1742-6596/1581/1/012059*

Activities in specialist bodies over the last 5 years	***Organisation***	***Role***	***Period***
	Indonesian center for cognitive load research	*Chief scientist*	*2023 – Current*
	Society for Research Development	*Life-member*	*2021-current*
	Ethnomathematics Journal	*Associate Editor/nasional*	*2021 - current*
	Mathematics Education Review	*Editor in Chief*	*2022- current*
	Jurnal Pedagogi Matematika	*Editor in Chief*	*2022 - current*
	Indonesia Mathematics Society (IndoMS)	*Member*	*2015 - current*