



Curriculum Vitae

Dr. Ariyadi Wijaya, S.Pd.Si., M.Sc.



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Unit Kerja : Fakultas MIPA
Status : Dosen

Riwayat Pendidikan :

| Tingkat | Universitas | Jurusan | Tahun Lulus |
|---------|-------------------------------------|-----------------------|-------------|
| S1 | Universitas Negeri Yogyakarta | Pendidikan Matematika | 2004 |
| S2 | Utrecht University, the Netherlands | Mathematics Education | 2008 |
| S3 | Utrecht University, the Netherlands | Mathematics Education | 2015 |

Keahlian :

Teknologi Pembelajaran Matematika

Bidang Pendidikan :

• Mengajar

| No. | Mata Kuliah | Semester/Tahun | Strata |
|-----|---|---|---|
| 1 | Kajian Matematika Sekolah Menengah Umum | Genap/2014-2015 | S1 Pendidikan Matematika |
| 2 | Kajian Matematika Sekolah Menengah | Ganjil/2015-2016 Ganjil/2016-2017 | S1 Pendidikan Matematika |
| 3 | Logika dan Himpunan | Ganjil/2015-2016 | S1 Pendidikan Matematika |
| 4 | Sejarah Matematika | Ganjil/2015-2016 Ganjil/2016-2017 Genap/2016-2017 | S1 Pendidikan Matematika S1 Matematika |



| No. | Mata Kuliah | Semester/Tahun | Strata |
|-----|--------------------------------|--------------------------------------|--------------------------|
| 5 | Seminar Matematika | Genap/2016-2017 | S1 Pendidikan Matematika |
| 6 | Perspektif Global | Ganjil/2015-2016 | S1 Pendidikan Matematika |
| 7 | Wawasan dan Kajian MIPA | Ganjil/2015-2016 | S1 Pendidikan IPA |
| 8 | Workshop Pendidikan Matematika | Genap/2014-2015 | S2 Pendidikan Matematika |
| 9 | Filsafat Pendidikan Matematika | Ganjil/2015-2016 Ganjil/2016-2017 | S2 Pendidikan Matematika |
| 10 | Daya Matematika | Genap/2015-2016 | S2 Pendidikan Matematika |
| 11 | Matematika Model | Genap/2015-2016 Genap/2016-2017 | S2 Pendidikan Matematika |
| 12 | Penulisan Karya Ilmiah | Ganjil/2016-2017 | S2 Pendidikan Matematika |
| 13 | Proyek Proposal Tesis | Khusus/2015-2016 Khusus/2016-2017 | S2 Pendidikan Matematika |
| 14 | Seminar Proposal Tesis | Ganjil/2015-2016 Ganjil/2016-2017 | S2 Pendidikan Matematika |
| 15 | Matematika SD | Ganjil/2016-2017 | S2 Pendidikan Dasar |

| No | Mata Kuliah | Semester | Tahun |
|----|---|----------|-----------|
| 1 | Logic and Sets | 1 | 2009;2010 |
| 2 | Number Theory | 2 | 2009 |
| 3 | Introduction to Mathematics for Physics | 1 | 2010 |
| 4 | Differential Calculus | 1 | 2010 |
| 5 | English | 2 | 2009 |
| 6 | Kalkulus Differensial | 1 | 2008.2009 |
| 7 | Kalkulus Integral | 2 | 2008,2009 |
| 8 | Pengantar Matematika untuk Fisika | 1 | 2009 |

• **Menulis Buku/Diktat/Hand Out**

| No | Judul | Penerbit | Tahun |
|----|-------|----------|-------|
|----|-------|----------|-------|



| | | | |
|---|---|------------------------------|------|
| 1 | Pendidikan Matematika Realistik. Suatu Alternatif Pendekatan Pembelajaran Matematika | Graha Ilmu | 2011 |
| 2 | Matematika itu Asyik; untuk SMP | Mobius (imprint Graha Ilmu) | 2012 |
| 3 | Asyiknya Belajar Matematika. Untuk Siswa SMA/SMK | Mobius (imprint Graha Ilmu) | 2014 |
| 4 | <i>Empowering Mathematics Learners through Exploratory Tasks</i> (a chapter in <i>Empowering Mathematics Learners</i>) | World Scientific (Singapore) | 2017 |

• **Bimbingan Skripsi**

| No | Nama Mahasiswa | NIM | SK Pembimbing |
|----|----------------|-----|---------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |

- Mengajar
- Bimbingan Skripsi
- Menulis Buku/Diktat/Hand Out
-

File Bidang Pendidikan :

- [English_HO+Set+Theory_Ariyadi](#)
- [course-syllabus-logic-and-sets](#)
- [syllabus-integral-calculus](#)
- [course-syllabus-number-theory](#)
- [syllabus-english](#)
- [lesson-plan-logic-set](#)
- [lesson-plan-integral-calculus](#)
- [lesson-plan-diferensial-calculus](#)
- [ujian-akhir-semester-filsafat](#)
- [tugas-kalkulus-integral](#)
- [uaskalkulus-integral](#)
- [slide-number-theory-fundamental-theorem](#)
- [slide-number-theory-gcd](#)
- [penguji-erba](#)
- [penguji-erni](#)
- [penguji-hildegardus](#)
- [penguji-palupi](#)
- [Daya matematika](#)
- [RPS_Sejarah Matematika_Ariyadi Wijaya](#)
- [RPS_Kajian Matematika Sekolah Menengah_Ariyadi Wijaya](#)

Bidang Penelitian :



| No | Tahun | Judul |
|----|-------|--|
| 1 | 2009 | Matematika Astronomi: Bagaimana Matematika Mempelajari Alam |
| 2 | 2009 | Hypothetical Learning Trajectory dan Peningkatan Pemahaman Konsep Pengukuran Panjang |
| 3 | 2009 | Permainan (Tradisional) untuk Mengembangkan Interaksi Sosial, Norma Sosial, dan Norma Sosiomatematik pada Pembelajaran Matematika dengan Pendekatan Matematika Realistik |
| 4 | 2009 | A Review of "Sailing" Game by Using Software Evaluation System: A Computer-based Game to Intertwine Various Mathematics Concepts and to Develop Sudents' Creativity |
| 5 | 2009 | International Standard School and Realistic Mathematics Education: A Collaborative Effort to Improve the National Competitiveness in the Global Era |
| 6 | 2009 | The Power of Games to Learn Mathematics: An Overview |
| 7 | 2009 | ePortfolio: An ICT-based Assessment for A Complex Educational Environment of World Class University |
| 8 | 2010 | Calculator: Its Controversy and Advantages for Learning Quantitative Literacy |
| 9 | 2011 | Emergent Modelling: From Traditional Indonesian Games to a Standard Unit of Measurement |
| 10 | 2014 | Wijaya, A., Van den Heuvel-Panhuizen, M., & Doorman, M. (2014). Identifying (Indonesian) students' difficulties in solving context-based (PISA) mathematics tasks. Proceedings of the International Seminar on Innovation in Mathematics and Mathematics Education. Yogyakarta, Indonesia. |
| 11 | 2015 | Wijaya, A. (2015). Kesalahan Siswa Dalam Memilah Data Relevan Pada Soal Matematika Berbasis Konteks. Proceedings Seminar Nasional Universitas Muhammadiyah Surakarta, Indonesia |
| 12 | 2015 | Wijaya, A. (2015). Looking for ingredients of an 'appropriate' innovation. In R. I. I. Putri (Ed.), Proceedings of the 3rd South East Asia Design/Development Research Conference 2015 (pp. 16-23). Palembang, Indonesia. [as a keynote speaker] |
| 13 | 2015 | Wijaya, A., Van den Heuvel-Panhuizen, M., & Doorman, M. (2015). Metacognitive prompt as a means to improve students' task comprehension. Proceedings of the International Conference on Research, Implementation and Education of Mathematics and Sciences 2015 (pp. 107-112). Yogyakarta, Indonesia |
| 14 | 2015 | Wijaya, A., Van den Heuvel-Panhuizen, M., & Doorman, M. (2015). Identifying ways to improve student performance on context-based mathematics tasks. In K. Krainer & N. Vondrova (Eds.), Proceedings of the Ninth Congress of the European Society for Research in Mathematics Education (CERME 9) (pp. 944-950). Prague, Czech Republic. |
| 15 | 2015 | Wijaya, A., Van den Heuvel-Panhuizen, M., & Doorman, M. (2015). Opportunity-to-learn context-based tasks provided by mathematics textbooks. Educational studies in mathematics 89 (1), 41-65 |
| 16 | 2015 | Wijaya, A., Van den Heuvel-Panhuizen, M., & Doorman, M. (2015). Teachers' teaching practices and beliefs regarding context-based tasks and their relation with students' difficulties in solving these tasks. Mathematics Education Research Journal 27 (4), 637-662 |



| | | |
|----|------|--|
| 17 | 2015 | Wijaya, A. (2015). Looking for ingredients of an 'appropriate' innovation. In R. I. I. Putri (Ed.), <i>Proceedings of the 3rd South East Asia Design/Development Research Conference 2015</i> (pp. 16-23). Palembang, Indonesia. |
| 18 | 2016 | Sadidah, A. & Wijaya, A. (2016). Developing mathematics learning set for special-needs junior high school student oriented to learning interest and achievement. <i>Jurnal Riset Pendidikan Matematika</i> , 3(2), 150-161. |
| 19 | 2016 | Wijaya, A. (2016). Students' Information Literacy: A Perspective from Mathematical Literacy. <i>Journal on Mathematics Education</i> , 7(2), 73-82. |
| 20 | 2017 | Sari, R. H. N. & Wijaya, A. (2017). Mathematical literacy of senior high school students in Yogyakarta. <i>Jurnal Riset Pendidikan Matematika</i> , 4(1), 100-107. |
| 21 | 2017 | Wijaya, A. (2017). Exploring students' modeling competences: A case of a GeoGebra-based modeling task. <i>AIP Conference Proceedings</i> , 1848(1). |
| 22 | 2016 | Wijaya, A. (2017). The difficulties of Indonesian fourth graders in learning fractions: An early exploration of TIMSS 2015 results. <i>AIP Conference Proceedings</i> , 1868(1). |

File Bidang Penelitian :
























-  [A+Wijaya_SemNas+MIPA+UNY+2009_Matematika+Astronomi](#)
-  [A+Wijaya_SemNas+Mat+UNY+2009_HLT+dan+Peningkatan+Pemahaman+Konsep+Pengukuran](#)
-  [A+Wijaya_SemNas+Aljabar+UNY+2009_Permainan+dan+Norma+Sosio+Matematik+dalam+Pembelajaran+Matematika+dengan+Pendekatan+PMR](#)
-  [A+Wijaya_Int+Sem+MIPA+UNY+2009_Review+Sailing+Game](#)
-  [A+Wijaya_LSM+XVII+2009_RME+and+SBI](#)
-  [A+Wijaya_Jurnal+Pythagoras+2009_The+Power+of+Games](#)
-  [A+Wijaya_ISWCU+2009_ePortfolio+for+WCU](#)
-  [A+Wijaya_LSM+XVIII+2010_Calculator_Its+Controversy+and+Advantages](#)
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-  [wijaya-et al2015esmttextbook-analysis-published-personal](#)
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-  [icriems-2](#)
-  [awijayacerme9-2015postconference-proceedingscontext-based-tasks](#)
-  [cerme-9](#)
-  [wijayasea-dr-unsri-2015innovation](#)
-  [sea-drkeynote](#)
-  [wijayasemnas-himadika-ikip-madiun-2015karakter](#)
-  [semnas-ikip-madiunkeynote](#)
-  [wijaya2014students-difficulties](#)
-  [wijayaisimmed-2014context-based-tasks](#)
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-  [wijayajsme-recsamemergent-modelling](#)
-  [wijayasemnas-mipa-uny-2009matematika-astronomi](#)
-  [awijayasemnas-mat-2009hlt](#)
-  [wijayapermainan-dan-norma-sosio-matematik-dalam-pembelajaran-matematik-dengan-pendekatan-pmr](#)



-  [wijayaint-sem-mipa-uny-2009review-sailing-game](#)
-  [awijayalsm-xvii-2009rme-and-sbi](#)
-  [wijayajurnal-pythagoras-2009the-power-games](#)
-  [wijayaiswcu-2009eportfolio-wcu](#)
-  [awijayalsm-xviii-2010calculatorits-controversy-and-advantages](#)
-  [wijayasemnas-ums-2015data-relevan](#)
-  [Wijaya_2017_Learning Fractions](#)
-  [Wijaya_2017_Exploring Modeling Competences](#)
-  [Sadidah_Wijaya_2016_Special Needs](#)
-  [Sari_Wijaya_2017_Math Literacy](#)
-  [Wijaya_2016_Information Literacy](#)
-  [Wijaya_2014_Students difficulties](#)
-  [Wijaya-etal_2015_ESM_textbook-analysis-published-personal](#)
-  [Wijaya et al_2015_Teachers practices dan beliefs](#)
-  [Wijaya_2015_SEA DR_Proceeding](#)
-  [Penilaian C1](#)
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-  [Cek similarity_Difficulties in solving context-based](#)
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-  [Cek similarity_Empowering mathematics learners-1](#)
-  [Cek similarity_Exploring modeling competence](#)
-  [Cek similarity_Identifying ways CERME](#)
-  [Cek similarity_Information literacy](#)
-  [Cek similarity_Kesalahan siswa](#)
- [Cek similarity_Key ingredient](#)
- [Cek similarity_Mathematical literacy](#)
- [Cek similarity_Metacognitive](#)
- [Cek similarity_Opportunity to learn textbooks](#)
- [Cek similarity_Special needs](#)
- [Cek similarity_The Relationships between Indonesian Fourth Graders Difficulties in Fractions and](#)



the Opportunity to Learn Fractions_ A Snapshot of TIMSS Results-1

-  [Cek similarity_Peran cendekia](#)
-  [Cek similarity_Identifying students](#)
-  [Exploratory Task_Wijaya](#)
-  [Wijaya_JSME Recsam_Emergent Modelling](#)
-  [Wijaya_JSME_Emergent Modelling](#)
-  [Wijaya_2016_Information Literacy](#)
-  [Wijaya et al_2015_Teachers practices dan beliefs](#)
-  [Cek similarity_Aljabar](#)
-  [Cek similarity_Difficulties in solving context-based](#)
-  [Cek similarity_Emergent modelling](#)
-  [Wijaya 2016 Aljabar GANTANG](#)
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-  [C6](#)
-  [C7](#)
-  [C8](#)
-  [C9](#)
-  [C10](#)
-  [C11](#)
-  [Cek similarity_Difficulties in solving context-based_2018](#)
-  [Cek similarity_Emergent modelling_2018](#)
-  [Cek similarity_Exploring modeling competence_2018](#)
-  [Cek similarity_Key Ingredients_2018](#)
-  [Cek similarity_Opportunity to learn textbooks_2018](#)
-  [Cek similarity_Relationships between Indonesian fourth graders and OTL_2018](#)
-  [Cek similarity_Teachers Beliefs_2018](#)
-  [Cek similarity_Information literacy_2018](#)

Bidang Pengabdian :

Pengabdian (2012 - 2017):

| No | Kegiatan Pengabdian pada Masyarakat | Bentuk | Tempat / Instansi | Tahun |
|----|--|-------------------------|-----------------------------|-------|
| 1 | Narasumber pelatihan pengembangan 'Soal Matematika Kreatif' (Creative Mathematics Task) untuk guru matematika SMP Kabupaten Sleman | Workshop | MGMP Matematika SMP Sleman | 2015 |
| 2 | Penyusunan bahan ajar untuk <i>Short Course on Realistic Mathematics Education</i> di QITEP in Mathematics | Pengembangan bahan ajar | SEAMEO QITEP in Mathematics | 2015 |
| 3 | Narasumber <i>Short Course on Realistic Mathematics Education</i> di QITEP in Mathematics | Pelatihan | SEAMEO QITEP in Mathematics | 2015 |
| 4 | Narasumber <i>Short Course on Joyful Learning in Mathematics</i> di QITEP in Mathematics | Pelatihan | SEAMEO QITEP in Mathematics | 2015 |



| No | Kegiatan Pengabdian pada Masyarakat | Bentuk | Tempat / Instansi | Tahun |
|----|--|-----------|----------------------------------|-------|
| 5 | Narasumber workshop penulisan artikel ilmiah untuk publikasi internasional | Workshop | FT UNNES | 2015 |
| 6 | Narasumber workshop penulisan artikel ilmiah untuk publikasi internasional | Workshop | UNESA | 2016 |
| 7 | Narasumber pelatihan Pengembangan Konteks untuk Pembelajaran Matematika di SDIT di Kabupaten Sleman dan Bantul | Pelatihan | SDIT Kabupaten Sleman dan Bantul | 2016 |
| 8 | Narasumber workshop pemanfaatan data TIMSS untuk penelitian pendidikan | Workshop | Puspendik | 2016 |
| 9 | Pemateri Kuliah Umum Pendidikan Matematika | Kuliah | FKIP UMS | 2016 |
| 10 | Pemateri Kuliah Umum Pendidikan Matematika | Kuliah | FKIP UMRAH | 2016 |
| 11 | Pemateri Kuliah Umum Pendidikan Matematika | Kuliah | PPs UNSYAH | 2017 |

File Bidang Pengabdian :

- [wijayaseminar-dan-workshop-pmri-usd-2009manfaat-permainan-tradisional-untuk-pmri](#)
- [wijayaseameo-qitepworkshop-developing-learning-modeltriangular-prism](#)
- [wijayaseameo-qiteptraining-rmelinear-measurement](#)
- [workshop-ft-unnesnarsum](#)
- [wijayaft-unnes-2015workshop-artikel](#)
- [workshop-joyfulnarsum1](#)
- [workshop-literasi-matematikanarsum](#)
- [awijayappm-smp-2-pakem](#)
- [awijayappm-smp-muh-pundong](#)

Penunjang :

File Penunjang :

- [juri-lsm](#)
- [juri-osn](#)
- [moderator-marss](#)
- [pengawas-sbmptn](#)
- [pengawas-sm](#)
- [primatika](#)
- [sk-pythagorasp1](#)
- [sk-pythagorasp2](#)
- [sk-kuik-fmipap1](#)
- [sk-kuik-fmipap2](#)



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 [sk-kuik-fmipap4](#)

Not Verified Yet