



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
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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 Students' 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](#)
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-  [wijaya-et al2015esmttextbook-analysis-published-personal](#)
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-  [icriems-2](#)
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-  [cerme-9](#)
-  [wijayasea-dr-unsri-2015innovation](#)
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-  [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](#)
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-  [Cek similarity_Empowering mathematics learners-1](#)
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- [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](#)
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-  [Cek similarity_Difficulties in solving context-based](#)
-  [Cek similarity_Emergent modelling](#)
-  [Wijaya 2016 Aljabar GANTANG](#)
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-  [C11](#)
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-  [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](#)

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