



## 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	<a href="#">Pendidikan Matematika Realistik. Suatu Alternatif Pendekatan Pembelajaran Matematika</a>	Graha Ilmu	2011
2	<a href="#">Matematika itu Asyik; untuk SMP</a>	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](#)
-  [A+Wijaya\\_JSME+Recsam\\_Emergent+Modelling\\_1](#)
-  [wijaya-et al2015esmttextbook-analysis-published-personal](#)
-  [wijayaicriems-2015metacognitive-prompt](#)
-  [icriems-2](#)
-  [awijayacerme9-2015postconference-proceedingscontext-based-tasks](#)
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-  [wijayasea-dr-unsri-2015innovation](#)
-  [sea-drkeynote](#)
-  [wijayasemnas-himadika-ikip-madiun-2015karakter](#)
-  [semnas-ikip-madiunkeynote](#)
-  [wijaya2014students-difficulties](#)
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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](#)
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-  [Penilaian C16](#)
-  [Revisi Penilaian C11](#)
-  [Revisi Penilaian C12](#)
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-  [Revisi Penilaian C16](#)
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-  [Cek similarity\\_Empowering mathematics learners-1](#)
-  [Cek similarity\\_Exploring modeling competence](#)
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-  [Cek similarity\\_Information literacy](#)
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-  [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](#)
- [C5](#)
- [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*