



UNIVERSITAS NEGERI YOGYAKARTA

Faculty of Mathematics and Natural Sciences
Department of Mathematics Education

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Bachelor of Education in Mathematics

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STAFF HANDBOOK

Name	Heri Retnawati, S.Pd., M.Pd., Dr.		
Expertise	Educational Measurement and Assessment		
Academic Career	Initial Academic Appointment	Institution	Year
		Universitas Negeri Yogyakarta	2000
Academic Background	1. Post Doctoral	-	-
	2. Doctoral Degree	Universitas Negeri Yogyakarta	2008
	3. Master Degree	Universitas Negeri Yogyakarta	2003
	4. Undergraduate Degree	Universitas Negeri Yogyakarta	1996
Employment	Position	Employer	Period
	1. Tenaga Pengajar/CPNS	Universitas Negeri Yogyakarta	01/03/2000 - 01/11/2002
	2. Asisten Ahli Madya	Universitas Negeri Yogyakarta	
	3. Asisten Ahli	Universitas Negeri Yogyakarta	01/11/2002 - 01/12/2012
	4. Instructor (Lektor Muda)	Universitas Negeri Yogyakarta	
	5. Assistant Professor (Lektor)	Universitas Negeri Yogyakarta	01/12/2012 - 01/06/2016
	6. Associate Professor (Lektor Kepala)	Universitas Negeri Yogyakarta	01/06/2016 - sekarang
Research and development projects over the last 5 years	1. Kemenristekdikti "Pengembangan Software Pelaporan Asesmen Pembelajaran Kurikulum 2013 di SMK" Periode: 2015 - 2017 Partner: C54; Ariadie Chandra Nugraha, M.T. Amount of financing: IDR 375.000.000,-		
	2. Direktorat PSMK "Pengembangan Mekanisme Perekrutan Guru SMK" Periode: 2015 Partner: Prof. Dr. Badrun Kartowagiran, M.Pd.; Drs. Amat Djaedun, M.Pd. Amount of financing: IDR 200.000.000,-		
	3. Direktorat PSMK "Pengembangan Soal Ujian Nasional SMK 2016" Periode: 2015 Partner: Prof. Dr. Badrun Kartowagiran, M.Pd.; Drs. Amat Djaedun, M.Pd. Amount of financing: IDR 1.600.000.000,-		
	4. Direktorat PSMK "Pengembangan Soal Ujian Nasional SMK 2017" Periode: 2016 Partner: Prof. Dr. Badrun Kartowagiran, M.Pd.; Drs. Amat Djaedun, M.Pd. Amount of financing: IDR 1.250.000.000,-		

	<p>5. Direktorat PSMK "Evaluasi Pelaksanaan Pendampingan Kurikulum 2013 di PSMK" Periode: 2015 Partner: Prof. Dr. Badrun Kartowagiran, M.Pd.; Dr. Samsul Hadi, M.Pd., M.T. Amount of financing: IDR 200.000.000,-</p>						
	<p>6. Casio Japan "School Mathematics Curriculum Review (Study of calculators utilization in elementary, junior, senior, and vocational high school in Indonesia)" Periode: 2019 Partner: Dr. Ariyadi Wijaya, M.Sc.; Wahid Yuniarto, M.Sc.MA.; Pastitta Ayu Laksmiwati, M.Pd. Amount of financing: IDR 300.000.000,-</p>						
	<p>7. DIPA PPs UNY "Pengembangan Media Implementasi STEM Berbasis Augmented Reality di Malaysia dan Indonesia" Periode: 2019 Partner: Prof. Dr. Marsigit, MA.; Wahyu Setyaningrum, Ph.D. Amount of financing: IDR 75.000.000,-</p>						
Industry collaborations over the last 5 years	<p>1. Project Title: Pelatihan Penentuan Kriteria Ketuntasan Minimal bagi Guru SMP Kerjasama LPPM UNY dengan MGMP Sleman Yogyakarta (2016) Partners: MGMP Sleman Yogyakarta</p> <p>2. Project Title: Pelatihan Perencanaan Pembelajaran yang Melatihkan Higher Order Thinking Skills bagi Guru Matematika dan IPA SMPIT Yogyakarta (2017) Partners: SMPIT Yogyakarta</p> <p>3. Project Title: Pelatihan Pelaporan Hasil Asesmen di SMP, SMA, SMK DI Yogyakarta (2017) Partners: STIKES Surya Global Yogyakarta</p> <p>4. Project Title: Pelatihan Penentuan Sampel Penelitian dan Deteksi Plagiasi bagi Dosen-dosen di STIKES Surya Global Yogyakarta (2017) Partners: STIKES Surya Global Yogyakarta</p> <p>5. Project Title: Pelatihan Analisis Validitas dan Reliabilitas Instrumen Penelitian bagi Dosen-dosen UST Yogyakarta (2017) Partners: UST Yogyakarta</p> <p>6. Project Title: Implementasi Lesson Study bagi Guru SMP di Gunungkidul (2018) Partners: MGMP Matematika SMP Kabupaten Gunungkidul</p> <p>7. Project Title: Pelatihan Penelitian R & D bagi Guru SMP di Sleman (2018) Partners: MGMP Matematika SMP Kabupaten Sleman</p> <p>8. Project Title: Pelatihan pengembangan instrumen HOTS bagi guru MAN Sleman (2018) Partners: MGMP Matematika MAN Kabupaten Sleman</p>						
Patents and proprietary rights	<table border="1"> <thead> <tr> <th>Title</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1. Published book: "Bilangan pecahan" Oleh: Atang Supriadi, Heri Retnawati PT. Pribumi Mekar ISBN: 978-602-6985-05-7</td> <td>2015</td> </tr> <tr> <td>2. Published book: "Menyusun Laporan Hasil Asesmen Pendidikan di Sekolah: Referensi untuk Pendidik, Mahasiswa & Praktisi Pendidikan" Oleh: Heri Retnawati, Samsul Hadi, Ariadie C. Nugraha, M. Thoriq Ramadhan, Ezi Apino, Hasan Djidu, Nidya F. Wulandari, Eny Sulistyaningsih</td> <td>2017</td> </tr> </tbody> </table>	Title	Year	1. Published book: "Bilangan pecahan" Oleh: Atang Supriadi, Heri Retnawati PT. Pribumi Mekar ISBN: 978-602-6985-05-7	2015	2. Published book: "Menyusun Laporan Hasil Asesmen Pendidikan di Sekolah: Referensi untuk Pendidik, Mahasiswa & Praktisi Pendidikan" Oleh: Heri Retnawati , Samsul Hadi, Ariadie C. Nugraha, M. Thoriq Ramadhan, Ezi Apino, Hasan Djidu, Nidya F. Wulandari, Eny Sulistyaningsih	2017
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1. Published book: "Bilangan pecahan" Oleh: Atang Supriadi, Heri Retnawati PT. Pribumi Mekar ISBN: 978-602-6985-05-7	2015						
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	<p>UNY Press, Yogyakarta ISBN: 978-602-6338-21-1</p>	
	<p>3. Published book: "Desain Pembelajaran Matematika untuk Melatihkan Higher Order Thinking Skills" Oleh: Jailani, Sugiman, Heri Retnawati, Bukhori, Ezi Apino, Hasan Djidu, Zainal Arifin UNY Press, Yogyakarta ISBN: 978-602-6338-22-8</p>	2018
	<p>4. Published book: "Perangkat pembelajaran matematika menggunakan pendekatan problem based learning: berorientasi pada prestasi belajar, kemampuan penalaran matematis, & rasa Ingin tahu siswa" Oleh: Heri Retnawati, Bukhori Nuha Medika ISBN: 978-602-6243-62-1</p>	2018
	<p>5. Published book: "Model Creative Problem Solving" Oleh: Ezi Apino, Heri Retnawati Nuha Medika ISBN: 978-602-6243-58-4</p>	2018
	<p>6. Patents: "Program Komputer "Sistem Bank Soal Online"" Oleh: Heri Retnawati, Samsul Hadi No. Paten: 077621</p>	2016
	<p>7. Patents: "Perangkat Pembelajaran Matematika Menggunakan Creative Problem Solving Berorientasi pada Higher Order Thinking Skills (HOTS)" Oleh: Ezi Apino, Heri Retnawati No. Paten:</p>	2018
	<p>8. Patents: "Perangkat Pembelajaran Matematika Menggunakan Pendekatan Problem Based Learning (PBL) Berorientasi pada Prestasi Belajar, Kemampuan Penalaran Matematis dan Rasa Ingin Tahu Siswa" Oleh: Bukhori, Heri Retnawati No. Paten:</p>	2018

Important publications over the last 5 years	Selected recent publications form a total of approx.:	
	1. Retnawati, H., Arlinwibowo, J., Wulandari, N.F., & Pradani, R.G. (2017). Teachers' Difficulties and Strategies in Physics Teaching and Learning That Applying Mathematics. <i>Journal of Baltic Science Education (JBSE)</i> , 17(1), 120-135.	
	2. Retnawati, H., Kartowagiran, B., Arlinwibowo, J., & Sulistyaningsih, E. (2017). Why are the Mathematics National Examination Items Difficult and What Is Teachers' Strategy to Overcome It? <i>International Journal of Instuction (IJI)</i> , 10(3), 257-276.	
	3. Retnawati, H. (2018). The DIF Identification in Constructed Response Items Using Partial Credit Model. <i>International Journal of Assessment and Tools in Education</i> , 5(1), 73-89.	
	4. Retnawati, H., Munadi, S., Arlinwibowo, J., Wulandari, N.F., & Sulistyaningsih, E. (2017). Teachers' Difficulties in Implementing Thematic Teaching and Learning in Elementary Schools. <i>The New Educational Review</i> , 48(2), 201-212.	

	<p>5. Retnawati, H., Hadi, S., Nugraha, A.C., Arlinwibowo, J., Sulistyaningsih, E., Djidu, H., Apino, E., & Iryanti, H.D. Implementing the Computer-Based National Examination in Indonesian Schools: The Challenges and Strategies. <i>Problem in Education 21st Century (PEC)</i>, 75(6), 612-633.</p>
	<p>6. Retnawati, H. (2017). Learning Trajectory of Item Response Theory Course Using Multiple Softwares. <i>Olympiads in Informatics</i>, 11, 123-142.</p>
	<p>7. Retnawati, H., Djidu, H., Kartianom, K., Apino, E., & Anazifa, R.D. (2018). Teachers' Knowledge Towards Higher-Order Thinking Skills and Its Learning Strategy. <i>Problem in Education 21st Century (PEC)</i>, 76(2), 215-230.</p>
	<p>8. Retnawati, H. (2016). Proving content validity of self-regulated learning scale (The comparison of Aiken index and expanded Gregory index). <i>REiD (Research and Evaluation in Education)</i>, 2(2), 155-164. doi:https://doi.org/10.21831/reid.v2i2.11029</p>
	<p>9. Retnawati, H. (2017). Diagnosing the Junior High School Students' Difficulties in Learning Mathematics. <i>International Journal on New Trends in Education & their Implications (IJONTE)</i>, 8(1), 33-50.</p>
	<p>10. Retnawati, H., Arlinwibowo, J., & Sulistyaningsih, E. (2017). The Students' Difficulties in Completing Geometry Items of National Examination. <i>International Journal on New Trends in Education & their Implications (IJONTE)</i>, 8(4), 28-41.</p>
	<p>11. Jaelani, J., & Retnawati, H. (2016). The Challenges of Junior High School Mathematic Teachers in Implementing the Problem-Based Learning for Improving the Higher-Order Thinking Skills. <i>Online Journal of Counseling & Education</i>, 5(3), 1-13.</p>
	<p>12. Astuti, F.S., & Retnawati, H. (2017). The Effect of National Examination's Policy on Readiness, Motivation, School Test Score, and National Examination Score. <i>The Online Journal of New Horizons in Education</i>, 7(3), 58-66.</p>
	<p>13. Retnawati, H. (2016). PERBANDINGAN METODE PENYETARAAN SKOR TES MENGGUNAKAN BUTIR BERSAMA DAN TANPA BUTIR BERSAMA. <i>Jurnal Kependidikan: Penelitian Inovasi Pembelajaran</i>, 46(2), 164-178. doi:https://doi.org/10.21831/jk.v46i2.10383</p>
	<p>14. Jailani, J., & Retnawati, H. (2017). Keefektifan Pemanfaatan Perangkat Pembelajaran Berbasis Masalah untuk Meningkatkan HOTS dan Karakter Siswa. <i>Jurnal Pendidikan dan Pembelajaran (JPP)</i>, 23(2), 111-123. Retrieved from http://journal.um.ac.id/index.php/pendidikan-dan-pembelajaran/article/view/10162</p>
	<p>15. Retnawati, H. (2017). Improving The Understanding Of Research Methodology And Self-Regulated Learning Through Blog Project. <i>Jurnal Cakrawala Pendidikan</i>, 36(2), 180 - 191. doi:https://doi.org/10.21831/cp.v36i2.10911</p>
	<p>16. Retnawati, H., Hadi, S., & Nugraha, A. (2017). Implementasi pemanfaatan software penulisan laporan hasil belajar siswa SMK pada pelaksanaan Kurikulum 2013. <i>Jurnal Pendidikan Vokasi</i>, 7(1), 30-42. doi:https://doi.org/10.21831/jpv.v7i1.12599</p>
	<p>17. Retnawati, H. (2017). Validitas dan Reliabilitas Konstruk Skor Tes Kemampuan Calon Mahasiswa. <i>Jurnal Ilmu Pendidikan</i>, 23(2), 126-135. doi:http://dx.doi.org/10.17977/jip.v23i2.10973</p>
	<p>18. Retnawati, H., Sulistyaningsih, E., & Yin, L. (2018). Students' readiness to teaching practice experience: A review from the mathematics education students' view. <i>Jurnal Riset Pendidikan Matematika</i>, 5(1), 1-17. doi:https://doi.org/10.21831/jrpm.v5i1.18788</p>

	Organization	Role	Period
Activities in specialist bodies over the last 5 years <i>(Membership without a specific role need not be mentioned)</i>	1. International Journal of Instruction, Turkiye	Advisory Editorial Board Member	2017-2018
	2. Anatolia Journal of Education, Turkiye	Editorial Board Member	2017-2018