

Utama Alan Deta, S.Pd., M.Pd., M.Si.

Position	***Modern Physics, Statistical Physics, and Quantum Physics Lecturer in Physics Education Study Program***		
	Assistant Professor in Modern Physics, Statistical Physics, and Quantum Physics		
	Degree	***University***	***Year***
Academic career	**Bachelor** at Physics Education	Universitas Negeri Surabaya - Indonesia	2006-2011
	Master at Science Education (Physics)	Universitas Sebelas Maret - Indonesia	2011-2013
	Master at Physics	Universitas Sebelas Maret - Indonesia	2012-2013
	The 2nd Particle Physics School in South-East Asia (PPSEA) 2012	High Energy Accelerator Research Organization (KEK) Jepang, Universitas Gajah Mada (UGM), Badan Tenaga Atom Nasional (BATAN), and Grup Fisikawan Teoritik Indonesia (GFTI)	2012
	School of Physics (SoP): Particle Physics and Physics of Complex System	Institut Pertanian Bogor (IPB) - Indonesia	2013
	School of Physics (SoP) VI: Gravity and Its Application in Astrophysics and Geophysics	UIN Sunan Kalijaga - Indonesia	2014
	Peningkatan Keterampilan Dasar Teknik Instruksional (PEKERTI) dan Applied Approach (AA)	Universitas Negeri Surabaya - Indonesia	2014
	The South East Asian Mathematical Society (SEAMS) School: Algebras and Their Applications (Quantum Physics, Cryptography and Statistics)	Institut Penyelidikan Matematik (INSPEM) Universiti Putra Malaysia (UPM) - Malaysia	2015
	Training on Awareness and Internal Audit of Quality Management System ISO 9001:2015	TUV Rheinland Group and FMIPA Universitas Negeri Surabaya - Indonesia	2017
	School of Physics (SoP) XI: Geometri Riemann	Sekolah Fisika Indonesia and UIN Walisongo - Indonesia	2018
	Pendidikan dan Pelatihan Dasar (Diklatsar) CPNS Golongan III Angkatan II Tahun 2017	Pusdiklat Pegawai Kemdikbud dan Pusdiklat Kemristekdikti - Indonesia	2018

	Workshop of National Scientific Journal Accreditation Assessor 2019	Kemristekdikti - Indonesia	2019
	Government Employer at Ministry of Research, Technology and Higher Education as a Lecturer Institution (now Ministry of Education and Culture)	Universitas Negeri Surabaya - Indonesia	2014-now
Employment	***Position***	***Employer***	***Period***
	Lecturer on Physics Education Study Program	Universitas Negeri Surabaya - Indonesia	2014-2018
	Quality Assurance Unit Team	Department of Physics, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya- Indonesia	2016-2018
	Open Journal System (OJS) Developer Team	Universitas Negeri Surabaya (Unesa) - Indonesia	2017-2018
	Publication Acceleration Team	Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia	2018
	Secretary of the Center for Mathematics and Science Publication Study (PKPMS)	Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia	2018
	Tutor	Indonesian Journal Volunteer (RJI) - Indonesia	2018-Now
	Assessor of National Journal Accreditation (Arjuna)	Ministry of Research Technology and Higher Education - Indonesia	2019-Now
	Head of Journal Management Team	Universitas Negeri Surabaya - Indonesia	2019-Now
	Conference Management Team	Universitas Negeri Surabaya - Indonesia	2019-Now
	Scientific Publication Team	Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia	2019-Now
	Assistant Professor in Modern Physics , Statistical Physics, and Quantum Physics	Universitas Negeri Surabaya - Indonesia	2019-Now
Research and development projects over the last 5 years	**2016:** First Year Student Life Adjustment Profile in Department of Physics FMIPA Universitas Negeri Suraabaya- Faculty of Mathematics and Natural Sciences Unesa Project - IDR 10,000,000 (research chairman) **2016:** Development of English Language Teaching Materials for Statistics Physics Lectures in the Featured Classes in the Physics Department - Faculty of Mathematics and Natural Sciences Project - IDR 10,000,000 (research member)		

	2017: Development of Problem-Solving Skills Assessment Instrument Based on Pedagogical Content Knowledge for Basic Physics Materials in Pre-service Physics Teachers - Faculty of Mathematics and Natural Sciences Unesa Project - IDR 10,000,000 (research member) **2018:** Development of Teaching Materials for Measurement Systems in Physics Course Based on Guided Inquiry Laboratory - Unesa's Research Project - IDR 10,000,000 (research member) **2018:** Tracer Study in Physics Education Program - Unesa's Research Project - IDR 10,000,000 (research chairman) **2018:** Tracer Study in Physics Program - Unesa's Research Project - IDR 10,000,000 (research member) **2019**: Application of Toulmin's Argument Pattern (TAP) in Learning Process of School Physics Course to Improve Critical Thinking of Undergraduate Student - Unesa's Research Project - IDR 10,000,000 (research member)	
Patents and proprietary rights	**Title**	**Year**
	Nurita Apridiana Lestari, Utama Alan Deta, Meta Yantidewi, Measurement System in Physics (HaKI EC00201976376)	19 August 2019 – 19 August 2069
Important publications over the last 5 years	Title	Year
	A Nurlailiyah, **UA Deta**. 2015. Studi Korelasi antara Kemampuan Matematika dengan Hasil Belajar Fisika di SMA PGRI Sumberrejo Bojonegoro Tahun Ajaran 2014/2015. *Jurnal Penelitian Fisika dan Aplikasinya (JPFA)* **5** (2) 64-69. DOI: https://dx.doi.org/10.26740/jpfa.v5n2.p64-69	2015
	UA Deta, Suparmi. 2015. The properties of Q-deformed Hyperbolic and Trigonometric Functions in Quantum Deformation. *AIP Conference Proceedings* **1677** 030007. DOI: https://dx.doi.org/10.1063/1.4930629	2015
	KIK Alemgadmi, Suparmi, Cari, **UA Deta**. 2015. Approximation Solution of Schrodinger Equation for Q-deformed Rosen-Morse using Supersymmetry Quantum Mechanics (SUSY QM). *AIP Conference Proceedings* **1677** 030004. DOI: https://dx.doi.org/10.1063/1.4930626	2015
	Cari, Suparmi, BN Pratiwi, **UA Deta**. 2015. Analytical Solution of D-Dimensional Dirac Equation with q-Deformed Trigonometric Scarf Potential for Exact Spin Symmetry using Romanovski Polynomial. *International Conference on Mathematics, Science, and Education 2015 (ICMSE 2015)* P50-P58. http://icmseunnes.com/2015/wp-content/uploads/2016/03/61_P.pdf	2015
	Suparmi, Cari, **UA Deta**, J Handhika. 2016. Energy Analysis of Four Dimensional Extended Hyperbolic Scarf I plus Three Dimensional Separable Trigonometric Noncentral Potentials Using SUSY QM approach. *Journal of Physics: Conference Series* **776** 012077. DOI: https://dx.doi.org/10.1088/1742-6596/776/1/012077	2016
	Suparmi, Cari, BN Pratiwi, **UA Deta**. 2016. Solution of D Dimensional Dirac Equation for Hyperbolic Tangent Potential using NU Method and Its Application in Material Properties. *AIP Conference Proceedings* **1710** 030010. DOI: https://dx.doi.org/10.1063/1.4941476	2016
	UA Deta. 2017. Peningkatan Pemahaman Materi Kuantisasi	2017

	Besaran Fisis pada Calon Guru Fisika menggunakan Metode Diskusi Kelas dan Scaffolding. *Jurnal Ilmiah Pendidikan Fisika Al-BiRuNi* **6** (2) 201-207. DOI: https://dx.doi.org/10.24042/jipfalbiruni.v6i2.1801	
	NA Lestari, MNR Jauhariyah, **UA Deta**. 2017. Pelatihan Manajemen Laboratorium untuk Pengelola Laboratorium IPA Tingkat SMA di Kabupaten Bojonegoro. *Jurnal Abdi* **3** (1) 17-21. DOI: https://dx.doi.org/10.26740/ja.v3n1.p17-21	2017
	UA Deta, N Suprapto, H Mubarok, AS Adam, A Kholiq. 2018. The Comparison of Static Friction Coefficient on Wood Between the Combination of Wood-Metal Load System and Wood-Sand Load System. *International Conference on Science and Technology (ICST 2018)*. DOI: https://dx.doi.org/10.2991/icst-18.2018.179	2018
	N Suprapto, AS Adam, **UA Deta**, H Mubarok. A Kholiq. 2018. The Comparison of Gravitational Acceleration through Optical Sensor and Receptor Pad Apparatus. *International Conference on Science and Technology (ICST 2018).* DOI: https://dx.doi.org/10.2991/icst-18.2018.178	2018
	M Yantidewi, **UA Deta**, NA Lestari. 2018. A Real-Time System for Monitoring Methane Level in Biogas Production A Preliminary Study. *International Conference on Science and Technology (ICST 2018).* DOI: https://dx.doi.org/10.2991/icst-18.2018.41	2018
	M Yantidewi, T Prastowo, **UA Deta**. 2018. Pelatihan Pembuatan Alat Peraga Mesin Stirling untuk Guru Fisika SMA. *Jurnal Abdi: Media Pengabdian Kepada Masyarakat* **4** (1) 51-54. DOI: https://dx.doi.org/10.26740/ja.v4n1.p51-54	2018
	NA Lestari, N Suprapto, **UA Deta**, M Yantidewi. 2018. Implementation of Multimodel Active Learning to Improve Basic Teaching Skills of Pre-Service Physics Teachers. *Journal of Physics: Conference Series* **1108** (1) 012119. DOI: https://doi.org/10.1088/1742-6596/1108/1/012119	2018
	N Suprapto, **UA Deta**, NA Lestari, A Kholiq, AS Adam, H Mubarok, MNR Jauhariyah. 2018. Pre-service Physics Teachers' Understanding on Total Lunar Eclipse: A Response of Supermoon on January 31st 2018. *Journal of Physics: Conference Series* **1108** (1) 012097. DOI: https://doi.org/10.1088/1742-6596/1108/1/012097	2018
	M Yantidewi, NA Lestari, **UA Deta**. 2018. Conducting A Real-Time Instrument System for Observing Biogas Digester's Temperature and Humidity. *Proceedings of the Mathematics, Informatics, Science, and Education International Conference (MISEIC 2018) in Advances in Intelligent Systems Research.* DOI: https://dx.doi.org/10.2991/miseic-18.2018.58	2018
	TN Ain, HAC Wibowo, A Ruhman, **UA Deta**. 2018. The Scientific Argumentation Profile of Physics Teacher Candidate in Surabaya. *Journal of Physics: Conference Series* **997**(1) 012025. DOI: https://doi.org/10.1088/1742-6596/997/1/012025	2018
	M Yantidewi, MS Muntini, **UA Deta**, NA Lestari. 2018. The Design of a PC-Based Real-Time System for Monitoring Methane and Oxygen Concentration in Biogas Production. *Journal of Physics: Conference Series* **997**(1) 012018. DOI: https://doi.org/10.1088/1742-6596/997/1/012018	2018
	UA Deta, NA Lestari, M Yantidewi, Suparmi, Cari. 2018. The D-Dimensional Non-Relativistic Particle in the Scarf Trigonometry plus Non-Central Rosen-Morse Potentials. *Journal of Physics:*	2018

	Conference Series **997**(1) 012014. DOI: https://doi.org/10.1088/1742-6596/997/1/012014	
	A Nurlailiyah, **UA Deta**, T N Ain, MS Haq, NA Lestari, M Yantidewi. 2019. Analysis of High School Physics National Examination Questions Based on Bloom Taxonomy and National Examination Question Standard in 2017/2018. *Journal of Physics: Conference Series* **1171** (1) 012041. DOI: https://doi.org/10.1088/1742-6596/1171/1/012041	2019
	M Hadi, A Husein, **UA Deta**. 2019. A Refractive Index in Bent Fibre Optics and Curved Space. *Journal of Physics: Conference Series* **1171** (1) 012016. DOI: https://doi.org/10.1088/1742-6596/1171/1/012016	2019
	NA Lestari, **UA Deta**, M Yantidewi, R Firmansyah. 2019. Reinforcing Scientific Skills Based on Laboratory for Pre-Service Physics Teacher by Measurement System Understanding. *Journal of Physics: Conference Series* **1171** (1) 012049. DOI: https://doi.org/10.1088/1742-6596/1171/1/012049	2019
	S Latifah, Irwandani, A Saregar, R Diani, O Fiani, Widayanti, **UA Deta**. 2019. How the Predict-Observe-Explain (POE) Learning Strategy Remediates Students' Misconception on Temperature and Heat Materials? *Journal of Physics: Conference Series* **1171** (1) 012051. DOI: https://doi.org/10.1088/1742-6596/1171/1/012051	2019
	Parmin, P., Saregar, A., Deta, U.A., AND El Islami, R.A.Z. 2020. Indonesian science teachers' views on attitude, knowledge, and application of STEM. Journal for the Education of Gifted Young Scientists. http://static.dergipark.org.tr/article-download/f26a/9a63/9cb8/5e31c9ea2c38d.pdf	2020
	Suliyanah, R N Fadillah and U A Deta. 2020. The Process of Developing Students' Scientific Argumentation Skill Using Argument-Driven Inquiry (ADI) Model in Senior High School on The Topic of Elasticity. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012046	2020
	U A Deta, I Prakoso, P Z R Agustina, R N Fadillah, N A Lestari, M Yantidewi, S Admoko, A Zainuddin, A Nurlailiyah and B K Prahani. 2020. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012067	2020
	N A Lestari, A K K Dinata, Dwikoranto, U A Deta and H Y Pratiwi. 2020. Students' Understanding of Physics in Science Process Skills using Inquiry-Link Maps: A Preliminary Study. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012069	2020
	Deta, U.A., Fadillah, R.N., Ria Agustina, P.Z., Prakoso, I., Nurlailiyah, A., Saregar, A., Misbah, Lestari, N.A. 2020. The Scientific Argumentation Profile of Earthquake Mitigation of Non-Science Undergraduate Student in Universitas Negeri Surabaya. Journal of Physics: Conference Series Volume 1467, Issue 1, 26 March 2020, Article number 012037. https://iopscience.iop.org/article/10.1088/1742-6596/1467/1/012037/meta	2020
	R K Pingak1 and U A Deta. 2020. A Simple Numerical Matrix Method for Accurate Triplet-1s2s 3S1 Energy Levels of Some	2020

	Light Helium-like Ions. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012035	
	Anderson, M., Hadi, M., Deta, U.A. 2020. Fermat's Principle and Hamilton's Principle: Does a least action take a least time for happening? Journal of Physics: Conference Series Volume 1467, Issue 1, 26 March 2020, Article number 012038. https://iopscience.iop.org/article/10.1088/1742-6596/1467/1/012038	2020

Activities in specialist bodies	***Organization***	***Position***	***Period***
	Physical Society of Indonesia (PSI)	Member	2018 – Now
	Relawan Jurnal Indonnesia	Member	2018 – Now
	Perkumpulan Pendidik IPA Indonesia (PPII)	Public Relation and Cooperation Team	2019 – Now