

# Dr. Binar Kurnia Prahani, M.Pd.

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| **Position** | ***Innovative Learning in Physics Education Study Program*** | | |
| | *Lecturer in Innovative Learning of Physics Education* | | |
| | ***Degree*** | ***University*** | ***Year*** |
| **Academic career** | Bachelor Program at Physics Education Study Program | Universitas Jember-Indonesia | 2008-2012 |
| | Master Program at Science Education Study Program | Universitas Negeri Surabaya-Indonesia | 2012-2014 |
| | Doctor Program at Science Education Study Program | Universitas Negeri Surabaya-Indonesia | 2014-2017 |
| | Training of Assessor BAN PAUD & PNF | Kemendikbud-Indonesia | 2018 |
| | Training of Tutor UPBJJ Surabaya | Universitas Terbuka-Indonesia | 2018 |
| | Workshop of Learning Instructional Development for Disabilities in University | Universitas Negeri Surabaya-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 | 2019-now |
| **Employment** | ***Position*** | ***Employer*** | ***Period*** |
| | Lecturer on PGMI, PIAUD, and Science Education | Universitas Islam Negeri Sunan Ampel, Indonesia | 2015-2019 |
| | Lecturer on Physics Education Study Program | Universitas Negeri Surabaya - Indonesia | 2019-now |
| | Tutor in UPBJJ Surabaya | Universitas Terbuka-Indonesia | 2015-2021 |
| | Assessor BAN PAUD & PNF | BAN PAUD & PNF-Indonesia | 2018-2021 |
| | Reviewer on ATI 2018 | Kementerian Agama-Indonesia | 2018 |
| | Reviewer on Kompetisi Sains Madrasah (KSM) 2019 | Kementerian Agama-Indonesia | 2019 |
| | Reviewer on OGN 2019 | Kemendikbud-Indonesia | 2019 |
| | Member of the Publication Team of the Faculty of Mathematics and Natural Sciences Unesa | Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia | 2019-2020 |
| | Member of the Tracer Study Team of the Faculty of | Faculty of Mathematics and Natural Sciences, | 2019-Now |

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| | Mathematics and Natural Sciences Unesa | Universitas Negeri Surabaya - Indonesia | |
| | Member of the EcoCampus Team of the Faculty of Mathematics and Natural Sciences Unesa | Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia | 2019-Now |
| | Cooperation Division | Postgraduate, Universitas Negeri Surabaya - Indonesia | 2019-Now |
| | Vice Chairman ICMR 2021 | Kementerian Agama - Indonesia | 2021 |
| | Member of the Magazine Team of the Faculty of Mathematics and Natural Sciences Unesa | Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya - Indonesia | 2019-2020 |
| | Vice Chairman MISEIC 2021 | Universitas Negeri Surabaya - Indonesia | 2021 |
| | Secretary SNF Unesa 2021 | Universitas Negeri Surabaya - Indonesia | 2021 |
| | Head of Scientific Publication Division | Universitas Negeri Surabaya - Indonesia | 2021 |
| **Research and development projects over the last 5 years** | **2021**: Eksplorasi Research Gap Science for Sport Berbasis Database Internasional Bereputasi: Kontribusi Sains dalam Menunjang Olah Raga Sebagai Unggulan UNESA-Kompetitif LPPM Unesa- IDR 30,000,000 (research leader)<br><br>**2021**: PISA-COsains: Eksplorasi kemampuan literasi-numerasi siswa SMP dengan sains-PISA konteks COVID-19 untuk mendukung Asesmen Kompetensi Minimum- Kompetitif LPPM Unesa- IDR 35,000,000 (research member)<br><br>**2021**: Kepraktisan dan Keefektifan Model OR-IPA Online Untuk Meningkatkan Keterampilan Berpikir Kritis Mahasiswa- Kompetitif LPPM Unesa- IDR 30,000,000 (research member)<br><br>**2021**: Reorientasi Riset Pendidikan Fisika di Indonesia Berdasarkan Hasil Pemetaan Tren Riset Berbasis Database Scopus dan Web of Science Dengan Bibliometric Analyis- DRPM- IDR 86,440,000 (research member)<br><br>**2020**: Penerapan Aplikasi MoLearn Terintegrasi Model Blended Web Mobile Learning (BWML) untuk Meningkatkan Hasil Belajar Berbasis Higher Order Thinking Skills (HOTs) (Anggota Peneliti)- LPDP Research Project- IDR 418,000,000 (research member)<br><br>**2019**: Pengembangan Model Blended Web Mobile Learning (BWML) Untuk Meningkatkan Hasil Belajar Berbasis HOTs Siswa SMA - LPDP Research Project- IDR 189,000,000 (research member)<br><br>**2019:** The Assesment of Prospective Physics Teachers' Creativity in Analyse Curriculum Based on Education for Sustainable Development - Faculty of Mathematics and Natural Sciences Project - IDR 10,000,000 (research member) | | |
| | **Tittle** | | **Year** |

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| **Patents and proprietary rights** | Dewiyani Sunarto, Bambang Hariadi, Tri Sagiran, **Binar Kurnia Prahani**, Budi Jatmiko; Buku Model *Scientific Hybrid Learning* Menggunakan Aplikasi Brilian (Hak Cipta: EC00201858576) | 2018 – 2067 |
| | Dewiyani Sunarto, Bambang Hariadi, Tri Sagiran, **Binar Kurnia Prahani**, Budi Jatmiko; Lembar Kegiatan Mahasiswa Pembelajaran Inovatif *Scientific Hybrid Learning* Mata Kuliah Matematika Bisnis (Hak Cipta: EC00201858577) | 2018 – 2067 |
| | Dewiyani Sunarto, Bambang Hariadi, Tri Sagiran, **Binar Kurnia Prahani**, Budi Jatmiko; Modul Pembelajaran Inovatif Model Shl *Scientific Hybrid Learning* Mata Kuliah Matematika Bisnis (Hak Cipta: EC00201858579) | 2018 – 2067 |
| | Budi Jatmiko, Elok Sudibyo **Binar Kurnia Prahani**, Mukhayyarotin Niswati Rodliyatul Jauhariyah; Buku Model Collaborative Physics Solving (CPS) Untuk Meningkatkan Kemampuan Pemecahan Masalah Dan Kolaboratif Mahasiswa (Hak Cipta: EC00201984124,) | 2019 – 2069 |
| | Budi Jatmiko, Elok Sudibyo, **Binar Kurnia Prahani**, Mukhayyarotin Niswati Rodliyatul Jauhariyah; Perangkat Pembelajaran Berbasis Model Collaborative Physics Solving (CPS) Untuk Meningkatkan Kemampuan Pemecahan Masalah Dan Kolaboratif Mahasiswa (Hak Cipta: EC00201984125) | 2019 – 2069 |
| | Bambang Hariadi, Budi Jatmiko, M.J. Dewiyani Sunarto, **Binar Kurnia Prahani**, Tri Sagirani, Tan Amelia Julianto Lemantara; Buku Model Blended Web Mobile Learning (BWML) (Hak Cipta: EC00201975887) | 2019 – 2069 |
| | Madlazim, Eko Hariyono, **Binar Kurnia Prahani**; Buku Model Pembelajaran OMBAK (Hak Cipta: EC00202127431) | 2021-2071 |
| **Important publications over the last 5 years** | Jatmiko, B., Prahani, B.K., Munasir, Supardi, Z.A.I., Wicaksono, I., Erlina, N., Pandiangan, P., Althaf, R., & Zainuddin. (2018). The Comparison of OR-IPA Teaching Model and Problem Based Learning Model Effectiveness to Improve Critical Thinking Skills of Pre-service Physics Teachers. *Journal Baltic Science Education*, ***17***(2), 1-22. (Scopus Q2) | 2018 |
| | Suyidno, S., Nur, M., Yuanita, L., **Prahani, B.K.,** & Jatmiko, B. (2018). Effectiveness of creative responsibility based teaching (CRBT) model on basic physics learning to increase student's scientific creativity and responsibility. *Journal of Baltic Science Education*, ***17***(1), 136-151. (Scopus Q2) | 2018 |
| | Astutik, S., & **Prahani, B.K.** (2018). The practicality and effectiveness of collaborative creativity learning (CCL) model by using PhET simulation to increase students' scientific creativity. *International Journal of Instruction*, ***11***(4), 409-424. (Scopus Q2) | 2018 |
| | Fuad, A. Z., Alfin, J., Fauzan, Astutik, S., & **Prahani, B. K**. (2019). Group Science Learning Model to Improve Collaborative Problem Solving Skills and Self-Confidence of Primary Schools Teacher Candidates. *International Journal of Instruction*, ***12***(3), 1-15. (Scopus Q2) | 2019 |

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| | Alfin, J., Fuad, A. Z., Nur, M., Yuanita, L., & **Prahani, B. K**. (2019). Development of group science learning (GSL) model to improve the skills of collaborative problem solving, science process, and self-confidence of primary schools teacher candidates. *International Journal of Instruction*, ***12***(1), 1-18. (Scopus Q2) | 2019 |
| | Sholahuddin, A., Yuanita, L., Supardi, Z.A.I., **Prahani, B.K**. (2020). Applying the cognitive style-based learning strategy in elementary schools to improve students' science process skills. Journal of Turkish Science Education, 2020, 17(2), pp. 289–301. (Scopus Q2) | 2020 |
| | Koyimah,, Widodo, W., Suprapto, N., **Prahani, B.K.** (2020). Effectiveness of interactive microcontroller based speed sensors to improve students' analytic thinking skills. International journal of online and biomedical engineering, 2020, 16(9), pp. 173–182. (Scopus Q3). | 2020 |
| | **Prahani, B.K.,** Jatmiko, B., Hariadi, B., ...Amelia, T., Lemantara, J. (2020). Blended web mobile learning (BWML) model to improve students' higher order thinking skills. International Journal of Emerging Technologies in Learning, 2020, 15(11), pp. 42–55. (Scopus Q2) | 2020 |
| | Madlazim,, Rahmadiarti, F., Masriyah,, ...Sunarti, T., **Prahani, B.K.** An OrSAEv learning model to improve the disaster preparedness of STEM teacher candidates<br>World Transactions on Engineering and Technology Education, 2020, 18(2), pp. 231–236 (Scopus Q1) | 2020 |
| | Suprapto, N., **Prahani, B.K.,** Cheng, T.H. (2021). Indonesian curriculum reform in policy and local wisdom: Perspectives from science education. *Jurnal Pendidikan IPA Indonesia*, 10(1), pp. 69–80. (Scopus Q2) | 2021 |
| | Madlazim, Rachmadiarti F.,Masriyah,Indana S.,Sudibyo E., **Prahani B.K.** (2021). Development of research roadmap of the excellence field of science unesa: Tsunami science. Science of Tsunami HazardsVolume 40, Issue 1, Pages 38 – 47. (Scopus Q3) | 2021 |
| | Suprapto, N., **Prahani, B.K.,** Deta, U.A. (2021). Research Trend on Ethnoscience through Bibliometric Analysis (2011-2020) and The Contribution of Indonesia.Library Philosophy and Practice, 2021, 2021, pp. 1–17. (Scopus Q3) | 2021 |
| | Hariadi, B., Sunarto, M.J.D., Sagirani, T., **Prahani, B.K.,** Jatmiko, B. (2021). Higher Order Thinking Skills for Improved Learning Outcomes Among Indonesian Students: A Blended Web Mobile Learning (BWML) Model<br>International Journal of Interactive Mobile Technologies, 2021, 15(7), pp. 4–16 (Scopus Q3) | 2021 |
| | Sholahuddin, A., Susilowati, E., **Prahani, B.K.,** Erman, E. Using a cognitive style-based learning strategy to improve students' environmental knowledge and scientific literacy<br>International Journal of Instruction, 2021, 14(4), pp. 791–808 (Scopus Q2) | 2021 |

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| | **Prahani, B. K.**, Suprapto, N., Rachmadiarti, F., Sholahuddin, A., Mahtari, S., & Siswanto, J. (2021). Online Scientific Creativity Learning (OSCL) in Science Education to Improve Students' Scientific Creativity in Covid-19 Pandemic. Journal of Turkish Science Education, 18. (Scopus Q2) | 2021 |
| | **Prahani, B.K.,** Deta, U.A., Lestari, N.A., ...Mahtari, S., Suyidno, A profile of senior high school students' science process skills on heat material Journal of Physics: Conference Series, 2021, 1760(1), 012010 (Scopus Q3) | 2021 |
| | **Prahani, B.K.,** Susiawati, E., Deta, U.A., ...Suyidno,, Siswanto, J. Profile of Students' Physics Problem-Solving Skills and the Implementation of Inquiry (Free, Guided, and Structured) Learning in Senior High School. Journal of Physics: Conference Series, 2021, 1747(1), 012012 (Scopus Q3) | 2021 |
| | **Prahani, B.K.,** Deta, U.A., Lestari, N.A., ...Mahtari, S., Suyidno, S. A profile of physics multiple representation ability of senior high school students on heat material Journal of Physics: Conference Series, 2021, 1760(1), 012020 | 2021 |
| | **Binar Kurnia Prahani**, Budi Jatmiko, Bambang Hariadi, Maria Josephine Dewiyani Sunarto, Tri Sagirani, Tan Amelia (2021).Development Blended Web Mobile Learning Model on COVID-19 Pandemic.TEM Journal, 10(4), 1879-1883 (Scopus Q3) | 2021 |

| **Professional Organization** | ***Organization*** | ***Position*** | ***Period*** |
|---|---|---|---|
| | Physical Society of Indonesia (PSI) | Member | 2019 – Now |
| | IEEE | Member | 2021-Now |