

**CURRICULUM VITAE
WOMEN MATHEMATICIAN AT ASEAN COUNTRIES
COUNTRY: INDONESIA**



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Short Biography

Budi Nurani Ruchjana is Professor of Statistics at Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia since 2007. She was born in Sumedang on December 23, 1963. She got a Ph.D. degree in Mathematics and Natural Sciences Institut Teknologi Bandung in Indonesia in the year 2002 with the Ph.D. thesis entitled The Generalized Space-Time Autoregressive Model and Its Application to Oil Production Data. She now focuses on research and research supervision in Group of Stochastic Modeling including Stochastic Processes, Time Series Analysis, Spatial Analysis, Spatio Temporal Analysis, and Ethnomathematics.

Professor Ruchjana has won awards in research grant since 2002 from the Ministry of Research and the Higher Education Republic of Indonesia, from the KNAW The Netherlands from the CRDF Global USA 2014-2015, and the European Union in the scheme of H2020 for the year 2019-2022 as a coordinator from a developing country in Research Innovation and Staff Exchange Social Media Analytics (RISE_SMA) which Prof. Stefan Stieglitz

from University Duisburg Essen as a Coordinator. She is also an external examiner of Ph.D. defense at some universities in Indonesia and the Netherlands.

Prof. Ruchjana also has experiences in the organization as a Head of the Department of Mathematics in 2002-2007, Dean of Faculty of Mathematics and Natural Sciences Universitas Padjadjaran in 2012-2016. For the mathematical society, Prof. Ruchjana was a President of the Indonesian Mathematical Society (IndoMS) in 2012-2016, A council member of the Southeast Asian Mathematical Society (SEAMS) in 2012-2016, a member of the Commission for Developing Countries International Mathematical Union (CDC IMU) in 2015-2018.

Prof. Ruchjana promotes the participation of women in STEM informally as an Ambassador of Committee Women in Mathematics International Mathematical Union (CWM IMU) for Indonesia since 2016. She is also active in Sundanese culture in the Kacapi Tembang D'Gbees group.

Research and Publication

Professor Ruchjana's research is on the Spatio Temporal Modeling and Its Applications and also in Ethnomathematics. Her mathematical works have been published in national and international journals and books.

Her list of Publications can be found at:

<https://scholar.google.co.id/citations?user=KuVIWZsAAAAJ&hl=en>

The best five recent publications in journals and /or books

| Number | Year | Title | Author(s) | Journal/Publisher | Link |
|--------|------|---|--|---|---|
| 1 | 2021 | Application of the Ordinary Kriging method for prediction of the positive spread of Covid-19 in West Java | B.N. Ruchjana, A.N. Falah, and A.S. Abdullah | Journal of Physics Conference Series, 1722 (2021), 012026 | https://iopscience.iop.org/article/10.1088/1742-6596/1722/1/012026/meta |
| 2 | 2020 | Multilevel model of dengue disease transmission in West Java | I.G.N.M. Jaya, B.N. Ruchjana, A. Setiawan Abdullah, N. Sunengsih | Communications in Mathematical Biology and Neuroscience 2020: 2020-97 | http://scik.org |

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| | | province, Indonesia by means INLA | | | |
| 3 | 2019 | Book "Penerapan gstat berbasis r untuk geostatistika dengan pendekatan spasial data mining" | Budi Nurani Ruchjana, Atje Setiawan Abdullah, Annisa Nur Falah | ALQAPRINT Jatinangor ISBN 978-602-6408-27-3 | |
| 4 | 2018 | Implementation of Generalized Space Time Autoregressive (GSTAR)-Kriging Model for Predicting Rainfall Data at Unobserved Locations in West Java | Atje Setiawan Abdullah, Setiawan Matoha, Deltha Airuzsh Lubis, Annisa Nur Falah, I. G. N. Mindra Jaya, Eddy Hermawan and Budi Nurani Ruchjana | Applied Mathematics and Information Sciences, Vo. 12(3), p 607-615 | http://www.naturalspublishing.com/Article.asp?ArtcID=14314 |
| 5 | 2017 | Modeling of infectious diseases: a core research topic for the next hundred years | I Gede Nyoman Mindra Jaya, Henk Folmer, Budi Nurani Ruchjana, Farah Kristiani, Yudhie Andriyana | Chapter Book Regional Research Frontiers-Vol. 2, p. 239-255, publisher Springer, Cham | https://link.springer.com/chapter/10.1007/978-3-319-50590-9_15 |
| 6 | 2008 | Consistency and asymptotic | Svetlana Borovkova | Statistica Neerlandica, Bo. | https://onlinelibrary.wiley.com/doi/abs/ |

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| | | normality of least squares estimators in generalized STAR models | Hendrik P. Lopuhaä Budi Nurani Ruchjana | 62 (4), p 482-508 | 10.1111/j.1467-9574.2008.00391.x |
|--|--|--|---|-------------------|----------------------------------|

The best five organization experiences

| Number | Year | Position | Organization | Link (if any) |
|--------|-----------|--|--|---|
| 1 | 2016-now | Ambassador CWM IMU for Indonesia | Committee Women in Mathematics International Mathematical Union (CWM IMU) | https://www.mathunion.org/cwm |
| 2 | 2016-now | Assesor | National Accreditation Organization (BAN PT) | https://satria.banpt.or.id/beranda |
| 3 | 2015-2018 | Member | Commission for Developing Countries International Mathematical Society (CDC IMU) | https://www.mathunion.org/cdc |
| 4 | 2012-2016 | Member Council | Southeast Asian Amthematical Society (SEAMS) | https://www.seams-math.org/ |
| 5 | 2012-2016 | President | Indonesian Mathematical Society (IndoMS) | https://indoms.id/ |
| 6 | 2012-2016 | Dean | Faculty of Mathematics and Natural | http://www.fmipa.unpad.ac.id/fix/ |

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| | | | Sciences Universitas Padjadjaran | |
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The best five awards including research grant and/or copyright

| Number | Year | Award | Local/National/ International | Award Giving Organization | Link (if any) |
|--------|---------------|---|----------------------------------|---|---|
| 1 | 2019- 2022 | Research Innovation and Staff Exchange_Social Media Analytics (RISE_SMA), Scheme H2020 | International | European Union | https://social-media-analytics.org/ |
| 2 | 2019- 2021 | Integrated Ecoourism Management in Indonesia, Scheme Erasmus Plus | International | European Union | https://www.intem.org/ |
| 3 | 2015- 2017 | Interational Collaboration Research | National | Ministry of Research, technology and Higher Education Republic of Indonesia | https://simli as.ristekbrin. |
| 4 | 2015- now | Academic Research Grant | Local | Rector of Universitas Padjadjaran | drpmi.unpa d.ac.id |
| 5 | 2004- 2007 | Mobility Programme | International | Royal Netherlands Academy of Arts and Sciences (KNAW) the Netherlands | https://ww w.knaw.nl/ nl |

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|---|------|--|----------|--|---|
| 6 | 2015 | Copyright Generalized Space Time Autoregressive (GSTAR) Number 075641 | National | Ministry of Law and Human Rights Republic of Indonesia | |
| 7 | 2020 | Copyright Development of GSTARI-ARCH Model Number 087428 | National | Ministry of Law and Human Rights Republic of Indonesia | |
| 8 | 2021 | Copyright the book Number 000134029 | National | Ministry of Law and Human Rights Republic of Indonesia | https://staffs.unpad.ac.id/lppm/hki/cipta |
| 9 | 2021 | Copyright the software for ICW-HDDA-X Virtual Poster Gallery Number 000224564 | National | Ministry of Law and Human Rights Republic of Indonesia | |

Bandung, 10 June 2021

The author,



Budi Nurani Ruchjana