

Natanael Karjanto — Curriculum Vitae

2066 Seobu-ro, Jangan-gu, Suwon-si 16419 – Gyeonggi-do, Republic of Korea

☎ +82 (31) 299 6243 • 📠 +82 (31) 290 7033 • ✉ natanael@skku.edu

🌐 <https://about.me/karjanto>

Employment

Sungkyunkwan University

Assistant Professor

Republic of Korea

2010

The University of Nottingham

Assistant Professor

Malaysia

2007

2010

Education

Universiteit Twente

PhD in Applied Mathematics

The Netherlands

2003

2006

Universiteit Twente

Master of Mathematical Sciences

The Netherlands

2001

2003

Bandung Institute of Technology

BS in Mathematics

Indonesia

1997

2001

Selected Publication

- Karjanto N. (2023) *Mathematical Biosciences and Engineering*, **20**(9): 16551–16595.
- Karuppaiya S., Singh S., and Karjanto N. (2023) *Frontiers in Physics*, **11**: 1168830.
- Karjanto N. (2023) *Mathematical Methods in the Applied Sciences*, **46**(3): 3405–3421.
- Karjanto N. (2022) *Mathematics*, **10**(23): 4559.
- Karjanto N. and Acelajado M.J. (2022) *Sustainability*, **14**(19): 12500.
- Karjanto N. (2022) *Zeitschrift für Angewandte Mathematik und Mechanik*, **102**(8): e202100484.
- Karjanto N. (2022) *Sustainability*, **14**(15): 9632.
- Karjanto N. (2022) *Symmetry*, **14**(1): 54.
- Karjanto N. (2022) *Sustainability*, **14**(12): 6980.
- Karjanto N. (2021) *Physics of Fluids*, **33**(5): 054107.
- Karjanto N. (2021) *Frontiers in Physics*, **9**: 599767.
- Karjanto N. (2021) *Education Sciences*, **11**(9): 490.
- Karjanto N. and Beauducel F. (2021) In Sriraman, B. (Ed.) *Handbook of the History and Philosophy of Mathematical Practice*: 1–30. Cham, Switzerland: Springer.
- Karjanto N. and Husain H.S. (2021) *Mathematics*, **9**(12): 1317.
- Kirikchi O. and Karjanto N. (2021) *Nonlinear Dynamics*, **103**(3): 2769–2782.
- Lee C.S., Karjanto N., Drew D.E. and Halim A.M. (2021) *IJCISIM*, **13**: 209–221.
- Yong S.T., Karjanto N., Gates P., Chan A. and Khin T.-M. (2021) *IJMEST*, **52**(8): 1175–1194.
- Karjanto N. (2020) In Simpao, V.A. and Little, H.C. (Eds.) *Understanding the Schrödinger Equation—Some (Non)linear Perspective*: 135–179. Hauppauge, NY: Nova Science Publishers.
- Karjanto N. and Simon L. (2019) *Studies in Educational Evaluation*, **63**: 122–135.
- Susanto H., Karjanto N., Zulkarnain, Nusantara T. and Widjanarko T. (2019) *Symmetry*, **11**(2): 271.

- Karjanto N., Lee S.G. and Lee J.H. (2019) *eJMT*, **13**(1): 109–120.
- Kirikchi O.B., Malomed B.A., Karjanto N., Kusdiantara R. and Susanto H. (2018) *PRA*, **98**(6): 063841.
- Karjanto N. (2017) *IJMEST*, **48**(6): 849–863.
- Karjanto N. and Yermukanova B. (2016) *The Mathematics Enthusiast*, **13**(3): 243–254.
- Karjanto N., Hanif W., Malomed B. and Susanto H. (2015) *Chaos*, **25**(2): 023112.
- Karjanto N. (2015) *IMA Journal of Applied Mathematics*. **80**(3): 893–905.
- Karjanto N. and Osman R. (2013) *HMS International Journal for Mathematics in Education*. **5**: 24–45.
- Karjanto N. and Yong S.T. (2013) *European Journal of Engineering Education*. **38**(1): 11–37.
- Karjanto N. and Susanto H. (2012) *Physical Review A* **85**(4): 045803.
- Karjanto N. (2011) *Teaching Mathematics and Its Applications* **30**(2): 70–74.
- Karjanto N. and Tiong K.M. (2011) *Journal of Applied Mathematics* **2011** 863161: 1–11.
- Karjanto N. (2010) *Applied Mathematical and Computational Sciences* **1**(2): 181–197.
- Karjanto N. and van Groesen E. (2010) *Journal of Hydro-environment Research* **3**: 186–192.
- Karjanto N. and van Groesen E. (2009) In Lang S.P. and Bedore S.H. (Eds.) *Handbook of Solitons: Research, Technology and Applications*: 501–539. Hauppauge, NY: Nova Science Publishers.
- Susanto H. and Karjanto N. (2009) *Applied Mathematics and Computation* **215**(3): 1084–1090.
- Susanto H. and Karjanto N. (2008) *Journal of Nonlinear Optical Physics and Materials* **17**(2): 159–165.
- Karjanto N. and van Groesen E. (2007) *Physics Letters A* **371**(3): 173–179.
- Andonowati, Karjanto N. and van Groesen E. (2007) *Applied Mathematical Modelling* **31**(7): 1425–43.
- Karjanto N. (2006) *Mathematical Aspects of Extreme Water Waves*. Zutphen, NL: Wöhrman Print.
- van Groesen E., Andonowati and Karjanto N. (2006) *Physics Letters A* **354**(4): 312–319.
- Kusumawinahyu W. M., Karjanto N and Klopman G. (2006) *J. Indones. Math. Soc.* **12**(1): 41–57.
- Karjanto N., van Groesen E. and Peterson P. (2002) *J. Indones. Math. Soc.* **8**(4): 39–47.

Supervision

University of Nottingham Malaysia
Jieqiang Tan, Consultant at Frost & Sullivan

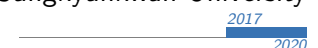
MPhil degree



Funded research

National Research Foundation
\$80000

Sungkyunkwan University



Samsung Intramural
\$10000

Sungkyunkwan University



Educational Policy Development Project
\$3000

Sungkyunkwan University



New Researchers Fund
£16000

University of Nottingham



Teaching

- | | |
|--------------------------------|--|
| ○ Foundation Algebra | ○ Engineering Mathematics 1 |
| ○ Foundation Mathematics | ○ Engineering Mathematics 2 |
| ○ PreCalculus | ○ Linear Algebra with Applications |
| ○ Calculus 1 (Single Variable) | ○ Introduction to Differential Equations |
| ○ Calculus 2 (Multivariable) | ○ Partial Differential Equations |

- Discrete Mathematics
- Applied Statistical Methods
- Mathematical Modeling

- Mathematical Techniques for Engineers
- Introduction to Number Theory

Service Committee

- Curriculum
- Textbook
- Scheduling (chair)
- Hiring

Editorial–Reviewer Board

- *Algorithms*
- *SAGE Open*
- *Symmetry*
- *Frontiers in Education*
- *Frontiers in Psychiatry*
- *Mathematica Æterna*
- *Mathematics Enthusiast*
- *Athens Journal of Education*
- *ComTech Journal*

Reviewer

- (Pearson) *Differential Equations & Linear Algebra*
- (Pearson) *Calculus: A Complete Course*
- MDPI-*Mathematics* (109)
- Springer-*Nonlinear Dynamics* (95)
- WiserPub-*Contemporary Mathematics* (18)
- FM-*Frontiers in Psychology* (13)
- SAGE-SAGE *Open* (10)
- Qeios (7)
- IC Computers in Education (6)
- MDPI-*Applied Sciences* (5)
- *Frontiers in Education* (5)
- AIMS-*Mathematical Biosciences & Engineering* (5)
- IOP-*Physics of Fluids* (5)
- Greece-Athens *Journal of Education* (4)
- HDW-*Journal of Mathematics* (4)
- IOP-*Engineering Research Express* (3)
- IC Fuzzy System and Data Mining (3)
- EMW-*Progress In Electromagnetic Research* (3)
- AIP-*Chaos* (2)
- MDPI-*Computation* (2)
- ELS-*Educational Research and Reviews* (2)
- Shanghai-IC Mathematical Education (2)
- J. *Multilingual & Multicultural Development* (2)
- Springer-*Optical and Quantum Electronics* (2)
- ELS-*Physica A: Statistical Mechanics* (2)
- APS-*Physical Review A* (2)
- MDPI-*Water* (2)
- (Pearson) *Linear Algebra & Its Applications*
- (Pearson) *Precalculus: Graphical Numerical Algebraic*
- MDPI-*Symmetry* (103)
- MDPI-*Axioms* (21)
- T&F-*IJMEST* (15)
- MDPI-*Fractal and Fractional* (12)
- T&F-*European Journal Engineering Education* (7)
- Binus-*ComTech Journal* (6)
- APS-*Physical Review E* (5)
- MDPI-*Entropy* (5)
- MDPI-*Materials* (5)
- UMontana-*Mathematics Enthusiast* (5)
- ELS-*Studies in Educational Evaluation* (5)
- Tokyo-IC Industrial and Applied Mathematics (4)
- IOP-*Physica Scripta* (4)
- IC Applied Mathematics, Modeling, Simulation (3)
- ELS-*Physica B: Condensed Matter* (3)
- MDPI-*Universe* (3)
- ELS-*Communications in Nonlinear Science* (2)
- MDPI-*Diagnostics* (2)
- FM-*Frontiers in Psychiatry* (2)
- WSP-*Journal of Applied Analysis & Computation* (2)
- MDPI-*Math. & Comput. Applications* (2)
- Pasundan *Journal of Mathematics Education* (2)
- ELS-*Physica D: Nonlinear Phenomena* (2)
- MDPI-*Sensors* (2)
- Net J-African *Educational Research Journal* (1)

- MDPI-*Algorithms* (1)
- *Annals of Environmental Science and Toxicology* (1)
- T&F-*Applicable Analysis* (1)
- UMPerlis-AMCI (1)
- *Asian Journal of Pure and Applied Mathematics* (1)
- ScienceDomain-BJMCS/JAMCS (1)
- ELS-*Children & Youth Services Review* (1)
- UAImeria-EJREP (1)
- *Frontiers in Applied Mathematics and Statistics*
- IC Mathematics and Mathematics Education (1)
- IC Physics, Mathematics, and Statistics (1)
- *Jordan Journal of Mathematics and Statistics* (1)
- HDW-*Journal of Applied Mathematics* (1)
- ELS-*Journal of Hydro-Environment Research* (1)
- ELS-*Learning and Individual Differences* (1)
- *Majalah Ilmiah Matematika dan Statistika* (1)
- AIMSP-*Physical Science International Journal* (1)
- *Shekhar International Journal of Mathematics* (1)
- MDPI-*Vibration* (1)
- UNottingham-Yong Suting (PhD thesis, 2017)
- SCIRP-*American Journal of Climate Change* (1)
- *Annals of Mathematical Physics* (1)
- ELS-*Applied Mathematics Letters* (1)
- *Asia Pacific Journal of Education* (1)
- MDPI-*Batteries* (1)
- MDPI-*ChemEngineering* (1)
- MDPI-*Coatings* (1)
- MDPI-*Electronics* (1)
- *IEEE T Computational Intelligence & AI Games* (1)
- IC Math, Geometry, Statistics, Computation (1)
- IJ Aquaculture and Fishery Sciences (1)
- De Gruyter-*Journal of Applied Analysis* (1)
- AIMS-*Journal of Geometric Mechanics* (1)
- *J. Korean Society Mathematical Education* (1)
- *Machine Learning: Science and Technology* (1)
- IOP-*Nonlinearity* (1)
- ELS-*Physics Letters A* (1)
- *Universal Journal of Mathematics and Application* (1)
- ELS-*Wave Motion* (1)
- UEssex-Omar Kirickhi (PhD thesis, 2017)

PhD Committee

- Sun Shaowei (2018) Sungkyunkwan University
- T. Sureshkumar (2017) Bharathiar University, India

Honours and Award

- Korea Foundation Workshop on EAI-ACE Challenge
- Sin-Pum Education (Gold)
- Mathematics & Statistics Competition (3rd prize)
- Dynamical Systems Workshop (5th prize)
- Mathematics Clipping Competition (1st prize)

References

Available upon request.