



UNIVERSITAS INDONESIA

Faculty of Mathematics and Natural Sciences

Department of Mathematics

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STAFF HANDBOOK

Name	Sarini Abdullah		
Expertise	Bayesian Statistics, Survival Analysis, Medical Statistics		
Academic career		Institution	Year
	Undergraduate degree	Universitas Indonesia	2001
	Master degree	University of New South Wales	2004
	Doctoral degree	Queensland University of Technology	2017
	Post-doctoral	-	-
Employment	Position	Employer	Period
	Lecturer Assistant professor	UI UI	2001 – 2019 2020 - now
Research and development projects over the last 5 years	<ol style="list-style-type: none"> Riset PITTA UI, "Metode Bayesian dan Terapannya dalam Pemodelan Penyakit Parkinson", Period 2018, Team Leader: Alhadi Bustamam, Amount of financing Rp 81,000,000.00 Riset PITTA A, "Klasifikasi Subtipe Molekular Kanker Payudara dan Analisis Ketahanan Pasien Menggunakan Bayesian Medical Data Mining: Studi Kasus Pasien Kanker Payudara di RSCM tahun 2013 - 2018", Period 2019, Amount of financing Rp 45,000,000.00 Riset PITTA B, "Metode Bayesian Untuk Penaksiran Parameter pada Extreme Value Distribution Dengan Incomplete Data dan Aplikasinya pada Data Medis", Period 2019, Amount of financing Rp 90,000,000.00 Riset PUTI Prosiding, "Medical Data Mining and Its Application in Study on Early Stages Parkinson's Disease Symptoms: Sleeping Disorder, Depression and Impulse Control Disorder", Period 2020, Amount of financing Rp 76,761,000.00 Riset PUTI Prosiding, 		

	<p>“Medical Data Mining and Its Application in Study on Early Stages Parkinson's Disease Symptoms: Sleeping Disorder, Depression and Impulse Control Disorder”, Period 2020, Amount of financing Rp 23,028,300.00</p> <p>6. Riset PUTI Saintekes, “Constant Hazard Piecewise Model with Bayesian Method and Its Application in Modeling the Growth Rate of Severity of Parkinson's Disease”, Period 2020, Amount of financing Rp 17,500,000.00</p> <p>7. Riset PUTI Q2, “Modelling the Early Stages of Parkinson’s Disease to Provide Insight into Disease Progression”, Period 2020, Amount of financing Rp 86,000,000.00</p> <p>8. Riset PUTI Q3, “Hematological Measurement Ratio as Surrogate Marker for Breast Cancer Recurrence using Random Forest and Logit Leaf Model: A Case Study on Indonesian Breast Cancer Patients”, Period 2020, Amount of financing Rp 50,000,000.00</p> <p>9. Riset PUTI Q3, “Estimating Indonesian Complete Life Table and Fair Annual Pure Premium Range from Abridged Life Table with Bayesian and Bootstrapping Method”, Period 2020, Amount of financing Rp 50,000,000.00</p> <p>10. Riset Riset FMIPA UI, “Pemodelan Efek Pemberian Obat Antivirus terhadap nilai D-dimer dan Kaitannya terhadap Laju Kesembuhan Pasien COVID-19”, Period 2021, Amount of financing Rp 34,000,000.00</p>
<p>Industry collaborations over the last 5 years</p>	<p>2019:</p> <ol style="list-style-type: none"> 1. Instructor, Artificial Intellegence Academy Training, in collaboration of BaBe and Pemda Malang, Indonesia 2. Principal Researcher, Kajian Komponen Non-Pagu Beasiswa LPDP, Kementrian Keuangan RI 3. Expert team member, Developing Data Science Curriculum for Data University Program, Traveloka Indonesia 4. Instructor, Data Science Training, Traveloka Indonesia

	<p>5. Reviewer, AIP Conference Proceedings 2019 Volume 2168, Proceesings of the 4th International Symposium on Current Progress in Mathematics and Sciences 2018 (ISCPMS 2018)</p> <p>2020:</p> <ol style="list-style-type: none"> 1. Reviewer, AIP Conference Proceedings 2020 Volume 2242, Proceesings of the 5th International Symposium on Current Progress in Mathematics and Sciences 2019 (ISCPMS 2019) 2. Supervisor, Sahabat Sensus 2020, collaboration of UI and BPS Provinsi Jawa Barat, Supervisor 3. Reviewer, International Conference on Mathematics, Statistics and Data Science, held by IPB with the support of Himpunan Matematika Indonesia, Indonesian Operations Research Association, Ikatan Statistisi Indonesia (ISI), and Forum Pendidikan Tinggi Statistika (FORSTAT) Indonesia 4. Main Jury, Kompetisi Statistika Nasional-Statistika Ria dan Festival Sains Data 2020-, collaboration of IPB Univeersity and Pusat Prestasi Nasional Kemenristekdikti. 5. Jury, Semifinal and Grand Final of Kompetisi Sobat Bumi Pertamina 2020 Kategori Teori Sains, collaboration of FMIPA UI and PT. Pertamina (Persero) <p>2021:</p> <p>Expert team member, developing SKKNI (Standar Kompetensi Kerja Nasional Indonesia) for Data Analytic, Kementerian Tenaga Kerja RI.</p>	
Patents and proprietary rights	Title (Reference Book) Abdullah, S. and Taufik Edy Sutanto. Statistika tanpa stres. TransMedia.	Year 2015
Important publications over the last 5 years	<p style="text-align: center;">Selected recent publications</p> <ol style="list-style-type: none"> 1. Lukman, P. A., Abdullah, S., & Rachman, A. (2021, January). Bayesian logistic regression and its application for hypothyroid prediction in post-radiation nasopharyngeal cancer patients. In Journal of Physics: Conference Series (Vol. 1725, No. 1, p. 012010). IOP Publishing. 2. Unggul, D. B., Abdullah, S., & Rachman, A. (2021, January). Laterality condition analysis on non-arteritic anterior ischemic optic neuropathy patient in one of the hospital in Jakarta with medical data mining. In Journal of Physics: Conference Series (Vol. 1725, No. 1, p. 012096). IOP Publishing. 3. Lestari, D. A., Abdullah, S., & Rachman, A. (2021, January). Identification of factors associated with hypothyroidism due to radiotherapy in patients with nasopharyngeal cancer (Case study of nasopharyngeal cancer in one of the hospitals in Jakarta). In Journal of Physics: Conference Series (Vol. 1725, No. 1, p. 012027). IOP Publishing. 	

	<ol style="list-style-type: none"> 4. Nastitie, F., Abdullah, S., & Nurrohmah, S. (2021, January). Analysis of factors associated with early stage Parkinson's disease based on daily activities and sleeping behaviour disorder. In <i>Journal of Physics: Conference Series</i> (Vol. 1722, No. 1, p. 012045). IOP Publishing. 5. Indriana, N. F., & Abdullah, S. (2021, January). Risk factors analysis of depression in early stage of Parkinson's disease. In <i>Journal of Physics: Conference Series</i> (Vol. 1722, No. 1, p. 012065). IOP Publishing. 6. Setianingsih, D. A., & Abdullah, S. (2021, January). Identification of risk factors for impulse-control disorder symptoms in patients with Parkinson's disease. In <i>Journal of Physics: Conference Series</i> (Vol. 1722, No. 1, p. 012099). IOP Publishing. 7. Asyuraa, F. C., Abdullah, S., & Sutanto, T. E. (2021, January). Empirical evaluation on discounted Thompson sampling for multi-armed bandit problem with piecewise-stationary Bernoulli arms. In <i>Journal of Physics: Conference Series</i> (Vol. 1722, No. 1, p. 012096). IOP Publishing. 8. George, P. M. A., Abdullah, S., & Rachman, A. (2021, January). Analysis of Hypothyroidism Development in Post-Radiotherapy Nasopharyngeal Cancer Patients using Survival Trees. In <i>Journal of Physics: Conference Series</i> (Vol. 1722, No. 1, p. 012095). IOP Publishing. 9. Kibtia, H., Abdullah, S., & Bustamam, A. (2020, November). Comparison of random forest and support vector machine for prediction of cognitive impairment in Parkinson's disease. In <i>AIP Conference Proceedings</i> (Vol. 2296, No. 1, p. 020093). AIP Publishing LLC. 10. Abdullah, S., & Prasetyo, G. V. (2020). Easy ensemble with random forest to handle imbalanced data in classification. <i>Journal of Fundamental Mathematics and Applications (JFMA)</i>, 3(1), 39-46. 11. Nurrohman, A., Abdullah, S., & Murfi, H. (2020, June). Parkinson's disease subtype classification: Application of decision tree, logistic regression and logit leaf model. In <i>AIP Conference Proceedings</i> (Vol. 2242, No. 1, p. 030015). AIP Publishing LLC. 12. Fauziyyah, N. A., Abdullah, S., & Nurrohmah, S. (2020, June). Reviewing the consistency of the Naïve Bayes Classifier's performance in medical diagnosis and prognosis problems. In <i>AIP Conference Proceedings</i> (Vol. 2242, No. 1, p. 030019). AIP Publishing LLC. 13. Briliano, L. H., Abdullah, S., & Fithriani, I. (2020, June). Parameter estimation of Burr distribution for right censored data with Bayes method. In <i>AIP Conference Proceedings</i> (Vol. 2242, No. 1, p. 030004). AIP Publishing LLC. 14. Margaretha, M., Fithriani, I., & Abdullah, S. (2020, June). Parameter estimation of exponentiated exponential distribution for left censored
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	<p>data using Bayesian method. In AIP Conference Proceedings (Vol. 2242, No. 1, p. 030029). AIP Publishing LLC.</p> <p>15. Dwimantara, N., Abdullah, S., Bustamam, A., & Rachman, A. (2020, March). Implementation of Bayesian Mixture Models in identifying subpopulation of breast cancer patients based on blood test measurements. In Journal of Physics: Conference Series (Vol. 1494, No. 1, p. 012012). IOP Publishing.</p> <p>16. Gunawan, H., Kusuma, A., & Abdullah, S. (2020). Parcel Locker as the Alternative of Parcel Delivery Service of Online Shopping. Journal of Computational and Theoretical Nanoscience, 17(2), 1311-1317.</p> <p>17. Dewi, K. C., Murfi, H., & Abdullah, S. (2019, October). Analysis Accuracy of Random Forest Model for Big Data–A Case Study of Claim Severity Prediction in Car Insurance. In 2019 5th International Conference on Science in Information Technology (ICSITech) (pp. 60-65). IEEE.</p> <p>18. Setiawan, R., Abdullah, S., & Bustamam, A. (2019, May). Survival function model estimation for parkinson disease using independent metropolis-hastings algorithm with uniform proposal distribution in bayesian inference. In Journal of Physics: Conference Series (Vol. 1217, No. 1, p. 012058). IOP Publishing.</p> <p>19. Abdullah, S., McGree, J., White, N., Mengersen, K., & Kerr, G. (2019). Factors associated with injurious from falls in people with early stage Parkinson's disease. arXiv preprint arXiv:1910.02379.</p> <p>20. Abdullah, S., McGree, J., White, N., Mengersen, K., & Kerr, G. (2019). Profile regression for subgrouping patients with early stage Parkinson's disease. arXiv preprint arXiv:1910.01864.</p> <p>21. Abdullah, S., White, N., McGree, J., Mengersen, K., & Kerr, G. (2019). Assessing the predictive ability of the UPDRS for falls classification in early stage Parkinson's disease. arXiv preprint arXiv:1910.01313.</p> <p>22. Christianti, D., Abdullah, S., & Nurrohmah, S. (2019). Bayes Risk Post-Pruning in Decision Tree to Overcome Overfitting Problem on Customer Churn Classification. In ICSA 2019: Proceedings of the 1st International Conference on Statistics and Analytics, ICSA 2019, 2-3 August 2019, Bogor, Indonesia (p. 472). European Alliance for Innovation.</p> <p>23. Hibatullah, R., Widyaningsih, Y., & Abdullah, S. (2018). Marshall-Olkin extended power Lindley distribution with application. Jurnal Riset dan Aplikasi Matematika (JRAM), 2(2), 84-92.</p>		
Scholar UI ID	https://scholar.ui.ac.id/en/persons/sarini-abdullah		
Activities in specialist bodies over the last 5 years	Organization	Role	Period
	1. Statistical Society of Australia, SSAI	Member	2015-2017
	2. Indonesian Mathematical Society (IndoMS)	Member	2012-now

	3. Forum Pendidikan Tinggi Statistika, FORSTAT	Eductional Team	2019-now
	4. International Statistics Institute	Member	2019-now
	5. Ikatan Statistisi Indonesia	Member	2019-now