

DAFTAR PUSTAKA

- Agresti, A. (2002). *Categorical Data Analysis* (Second). Wiley-Interscience.
- Araujo, M., & Naimi, B. (2020). *Spread of SARS-CoV-2 Coronavirus likely to be constrained by climate*. <https://doi.org/10.1101/2020.03.12.20034728>
- Ardani, I., & Handayani, S. (2017). Stigma terhadap Orang dengan HIV/AIDS (ODHA) sebagai Hambatan Pencarian Pengobatan: Studi Kasus pada Pecandu Narkoba Suntik di Jakarta. *Buletin Penelitian Kesehatan*, 45(2), 81–88. <https://doi.org/10.22435/bpk.v45i2.6042.81-88>
- Astuti, E. T., Budiantara, I. N., Sunaryo, S., & Dokhi, M. (2013). Statistical modeling for mortality data using local generalized poisson regression model. *International Journal of Applied Mathematics and Statistics*, 33(3), 92–101.
- Bermúdez, L., & Karlis, D. (2011). Bayesian multivariate Poisson models for insurance ratemaking. *Insurance: Mathematics and Economics*, 48(2), 226–236. <https://doi.org/10.1016/j.insmatheco.2010.11.001>
- Bermúdez, L., & Karlis, D. (2012). A finite mixture of bivariate Poisson regression models with an application to insurance ratemaking. *Computational Statistics and Data Analysis*, 56(12), 3988–3999. <https://doi.org/10.1016/j.csda.2012.05.016>
- Best, D. J. (1999). *Tests of fit and other nonparametric data analysis*. The University of Wollongong.
- BNN. (2017). *Survei Nasional Penyalahgunaan Narkoba Di 34 Provinsi Tahun 2017* Pusat Penelitian Data Dan Informasi Badan Narkotika Nasional Republik Indonesia. http://www.bnn.go.id/_multimedia/document/20180508/BUKU_HASIL_LIT_2017.pdf
- Bradley, H., Hogan, V., Agnew-brune, C., Armstrong, J., Broussard, D., Burton, K., Cope, S., Dawson, E., Garza, G. D. La, Gerard, A., Granado, M., Gupta, R., Haddy, L., Hoffman, W., Jhonson, S. D., Kirk, N., Lee, C., & Hoots, B. E. (2019). Create account Sign in Annals of Epidemiology Increased HIV diagnoses in West Virginia counties highly vulnerable to rapid HIV dissemination through injection drug use : a cautionary tale. *Annals of Epidemiology*, 34, 12–17. <https://doi.org/10.1016/j.annepidem.2019.02.012>
- Cameron, A. C., & Trivedi, P. K. (1998). *Regression Analysis of Count Data* (P. Hammond & A. Holly (eds.)). Cambridge University Press.
- Cao, R., & Lugosi, G. (2005). Goodness-of-fit tests based on the kernel density estimator. *Scandinavian Journal of Statistics*, 32(4), 599–616. <https://doi.org/10.1111/j.1467-9469.2005.00471.x>
- Chamidah, N., Tjahjono, E., Fadilah, A. R., & Lestari, B. (2018). Standard Growth Charts for Weight of Children in East Java Using Local Linear Estimator. *Journal of Physics: Conference Series*, 1097(1). <https://doi.org/10.1088/1742-6596/1097/1/012092>
- Chamidah, Nur, Budiantara, I. N., Sunaryo, S., & Zain, I. (2012). Designing of Child Growth Chart Based on Multi-Response Local Polynomial Modeling. *Journal of Mathematics and Stat*, 8(3), 342–347.

- Chamidah, Nur, Gusti, K. H., Tjahjono, E., & Lestari, B. (2019). Improving of classification accuracy of cyst and tumor using local polynomial estimator. *TELKOMNIKA (Telecommunication Computing Electronics and Control)*, 17(3), 1492. <https://doi.org/10.12928/telkomnika.v17i3.12240>
- Chamidah, Nur, & Lestari, B. (2016). Spline Estimator in Homoscedastic Multi-Responses Nonparametric Regression Model in Case of Unbalanced Number of Observations. *Far East Journal of Mathematical Sciences (FJMS)*, 100(9), 1433–1453.
- Chamidah, Nur, & Rifada, M. (2016). Local linear estimator in bi-response semiparametric regression model for estimating median growth chart of children. *Far East Journal of Mathematical Sciences (FJMS)*, 99(8), 1233–1244.
- Chamidah, Nur, & Saifudin, T. (2013). Estimation of children growth curve based on kernel smoothing in multi-response nonparametric regression. *Applied Mathematical Sciences*, 7(37–40), 1839–1847.
- Chang, L. Y. (2005). Analysis of freeway accident frequencies: Negative binomial regression versus artificial neural network. *Safety Science*, 43(8), 541–557. <https://doi.org/10.1016/j.ssci.2005.04.004>
- Chen, N., Zhou, M., Dong, X., Qu, J., Gong, F., Han, Y., Qiu, Y., Wang, J., Liu, Y., Wei, Y., Xia, J., Yu, T., Zhang, X., & Zhang, L. (2020). Epidemiological and clinical characteristics of 99 cases of 2019 novel coronavirus pneumonia in Wuhan, China: a descriptive study. *The Lancet*, 395(10223), 507–513. [https://doi.org/10.1016/S0140-6736\(20\)30211-7](https://doi.org/10.1016/S0140-6736(20)30211-7)
- Cheon, S., Song, S. H., & Jung, B. C. (2009). Tests for independence in a bivariate negative binomial model. *Journal of the Korean Statistical Society*, 38(2), 185–190. <https://doi.org/10.1016/j.jkss.2008.11.004>
- Climov, D., Hart, J., & Simar, L. (2002). Automatic smoothing and estimation in single index poisson regression. *Journal of Nonparametric Statistics*, 14(3), 307–323. <https://doi.org/10.1080/10485250212373>
- Darnah, Utomo, M. I., & Chamidah, N. (2019). Modeling of Maternal Mortality and Infant Mortality Cases in East Kalimantan using Poisson Regression Approach Based on Local Linear Estimator. *IOP Conference Series: Earth and Environmental Science*, 243, 1–7. <https://doi.org/10.1088/1755-1315/243/1/012023>
- De Brabanter, K., De Brabanter, J., De Moor, B., & Gijbels, I. (2013). Derivative estimation with local polynomial fitting. *Journal of Machine Learning Research*, 14(1), 281–301.
- Desai, D. (2020). *Urban Densities and the Covid-19 Pandemic : Upending the Sustainability Myth of Global Megacities* (Issue May). Observer Research Foundation.
- Dinkes Jatim. (2017). PROFIL KESEHATAN PROVINSI JAWA TIMUR TAHUN 2016 [East Java Health Profile 2016]. In *Provinsi Jawa Timur, Dinkes*.
- Doksum, K., Peterson, D., & Samarov, A. (2000). On variable bandwidth selection in local polynomial regression. *Journal of the Royal Statistical Society. Series B: Statistical Methodology*, 62(3), 431–448. <https://doi.org/10.1111/1467-9868.00242>
- Ehiwario, J. C., & Aghamie, S. O. (2014). Comparative Study of Bisection, Newton-

- Raphson and Secant Methods of Root- Finding Problems. *IOSR Journal of Engineering (IOSRJEN)*, 4(4), 01–07. <https://doi.org/10.9790/3021-04410107>
- Eubank, R. L. (1999). *Nonparametric Regression and Spline Smoothing* (Second). Marcel Dekker, Inc.
- Famoye, F. (2010a). A new bivariate generalized Poisson distribution. *Statistica Neerlandica*, 64(1), 112–124. <https://doi.org/10.1111/j.1467-9574.2009.00446.x>
- Famoye, F. (2010b). On the bivariate negative binomial regression model. *Journal of Applied Statistics*, 37(6), 969–981. <https://doi.org/10.1080/02664760902984618>
- Famoye, F., Wulu, J. T., & Singh, K. P. (2004). On the Generalized Poisson Regression Model with an Application to Accident Data. *Journal of Data Science*, 2(3), 287–295. [https://doi.org/10.6339/JDS.2004.02\(3\).167](https://doi.org/10.6339/JDS.2004.02(3).167)
- Fan, J., & Gijbels, I. (1996). *Local Polynomial Modelling and its Applications* (1st ed.). Springer Science+Business Media Dordrecht. <https://doi.org/10.1007/978-1-4899-3150-4>
- Fan, Jianqing. (1993). Local Linear Regression Smoothers and Their Minimax Efficiencies. *The Annals of Statistics*, 21(1), 196–216.
- Fan, Jianqing, & Gijbels, I. (1992). Variable Bandwidth And Local Linear Regression Smoothers. *The Annals of Statistics*, 20(4), 2008–2036.
- Fernandes, A. A. R., Nyoman Budiantara, I., Otok, B. W., & Suhartono. (2014). Spline estimator for bi-responses nonparametric regression model for longitudinal data. *Applied Mathematical Sciences*, 8(113–116), 5653–5665. <https://doi.org/10.12988/ams.2014.47566>
- Ferrari, A., Letac, G., & Tourneret, J. Y. (2007). Exponential families of mixed Poisson distributions. *Journal of Multivariate Analysis*, 98(6), 1283–1292. <https://doi.org/10.1016/j.jmva.2006.03.005>
- Greene, W. (2008). Functional forms for the negative binomial model for count data. *Economics Letters*, 99(3), 585–590. <https://doi.org/10.1016/j.econlet.2007.10.015>
- Härdle, W., Müller, M., Sperlich, S., & Werwatz, A. (2004). *Nonparametric and Semiparametric Models* (P. Bickel, P. Diggle, S. Fienberg, K. Krickeberg, I. Olkin, N. Wermuth, & S. Zeger (eds.)). Springer.
- Hilbe, J. M. (2011). *Negative Binomial Regression* (Second). Cambridge University Press. <https://doi.org/10.1192/bjp.111.479.1009-a>
- Hogg, R. V., McKean, J. W., & Craig, A. T. (2005). *Introduction to Mathematical Statistics*. Pearson Educational International.
- <http://infocovid19.jatimprov.go.id/>. (n.d.). *No Title*.
- <https://www.kemkes.go.id/>. (n.d.). *Kemenkes siap sosialisasikan perubahan istilah odp, pdp dan otg ke seluruh dinas kesehatan.* <https://www.kemkes.go.id/article/view/20071500001/kemenkes-siap-sosialisasikan-perubahan-istilah-odp-pdp-dan-otg-ke-seluruh-dinas-kesehatan.html>
- Jin, Z., & He, W. (2016). Local linear regression on correlated survival data. *Journal of Multivariate Analysis*, 147, 285–294. <https://doi.org/10.1016/j.jmva.2016.02.006>

- Kemenkes. (2018a). *Data Dan Informasi Profil Kesehatan Indonesia 2017*. <http://labdata.litbang.depkes.go.id/menu-download>
- Kemenkes. (2018b). *Hari AIDS Sedunia, Momen STOP Penularan HIV: Saya Berani, Saya Sehat*. <https://www.kemkes.go.id/article/view/18120300001/hari-aids-sedunia-momen-stop-penularan-hiv-saya-berani-saya-sehat-.html>
- Kemenkes. (2019). *Profil Kesehatan Indonesia 2018*. Kementerian Kesehatan Republik Indonesia.
- Lestari, B., Fatmawati, Budiantara, I. N., & Chamidah, N. (2018). Estimation of Regression Function in Multi-Response Nonparametric Regression Model Using Smoothing Spline and Kernel Estimators. *Journal of Physics: Conference Series*, 1097, 1–9. <https://doi.org/10.1088/1742-6596/1097/1/012091>
- Lestari, Budi, Budiantara, I. N., Sunaryo, S., & Mashuri, M. (2010). Spline Estimator in Multi-Response Nonparametric Regression Model with Unequal Correlation of Errors. *Journal of Mathematics and Statistics*, 6(3), 327–332.
- Lestari, Budi, Budiantara, I. N., Sunaryo, S., & Mashuri, M. (2012). Spline smoothing for multi-response nonparametric regression model in case of heteroscedasticity of variance. *Journal of Mathematics and Statistics*, 8(3), 377–384. <https://doi.org/10.3844/jmssp.2012.377.384>
- Lestari, Budi, Fatmawati, & Budiantara, I. N. (2018). Spline Estimator and Its Asymptotic Properties in Multiresponse Nonparametric Regression Model. *Songklanakarin Journal of Science and Technology (SJST)*, In Press, 1–32.
- Li, R., Richmond, P., & Roehner, B. M. (2018). Effect of population density on epidemics. *Physica A: Statistical Mechanics and Its Applications*, 510, 713–724. <https://doi.org/10.1016/j.physa.2018.07.025>
- Liang, H., & Chen, J. D. Z. (2005). Assessment of the esophageal pressure in gastroesophageal reflux disease by the local regression. *Annals of Biomedical Engineering*, 33(6), 847–853. <https://doi.org/10.1007/s10439-005-2866-8>
- Loader, C. (1999). *Local Regression and Likelihood* (J. Chambers, W. Eddy, W. Hardle, S. Sheather, & L. Tierney (eds.)). Springer.
- Månsson, K. (2012). On ridge estimators for the negative binomial regression model. *Economic Modelling*, 29(2), 178–184. <https://doi.org/10.1016/j.econmod.2011.09.009>
- McCullagh, P., & Nelder, J. A. (1989). *Generalized Linear Models* (Second). Chapman and Hall.
- Nasution, A. (2004). *Kewaspadaan Terhadap AIDS (AIDS Awareness)* (pp. 1–16). USU digital library.
- Ngoya, M. F. (2015). Mengawal Sustainable Development Goals (SDGs); Meluruskan Orientasi Pembangunan yang Berkeadilan. *Sosioreligius*, 1(1), 77–88.
- Oktarina, O., Hanafi, F., & Budisuar, M. (2009). Hubungan Antara Karakteristik Responden, Keadaan Wilayah Dengan Pengetahuan, Sikap Terhadap Hiv/Aids Pada Masyarakat Indonesia. *Buletin Penelitian Sistem Kesehatan*, 12(4). <https://doi.org/10.22435/bpsk.v12i4.2742>
- Payne, E. H., Gebregziabher, M., Hardin, J. W., Ramakrishnan, V., & Egede, L. E. (2017).

An empirical approach to determine a threshold for assessing overdispersion in Poisson and negative binomial models for count data. *Communications in Statistics: Simulation and Computation*, 47(6), 1722–1738.
<https://doi.org/10.1080/03610918.2017.1323223>

- Phanuphak, N., Lo, Y. R., Shao, Y., Solomon, S. S., O'Connell, R. J., Tovanabutra, S., Chang, D., Kim, J. H., & Excler, J. L. (2015). HIV Epidemic in Asia: Implications for HIV Vaccine and Other Prevention Trials. *AIDS Research and Human Retroviruses*, 31(11), 1060–1076. <https://doi.org/10.1089/aid.2015.0049>
- Pradhan, N. C., & Leung, P. S. (2006). A Poisson and negative binomial regression model of sea turtle interactions in Hawaii's longline fishery. *Fisheries Research*, 78(2–3), 309–322. <https://doi.org/10.1016/j.fishres.2005.12.013>
- Praptoraharjo, I., Wiebel, W. W., Kamil, O., & Pach, A. (2007). Jaringan Seksual dan Perilaku Berisiko Pengguna Nafza Suntik: Episode Lain Penyebaran HIV di Indonesia. *Berita Kedokteran Masyarakat*, 23(3), 106–118.
- Ross, S. M. (2004). *Statistics, Introduction To Probability and for Engineers and Scientists* (Vol. 40, Issue 6). Elsevier Academic Press. <https://doi.org/10.1002/1521-3773>
- Ruru, Y., & Barrios, E. B. (2003). Poisson Regression Models of Malaria Incidence in Jayapura, Indonesia. *The Philippine Statistician*, 52(1), 27–38.
- Sajadi, M. M., Habibzadeh, P., Vintzileos, A., Miralles-wilhelm, F., & Amoroso, A. (2020). *Temperature, humidity, and latitude analysis to predict potential spread and seasonality for COVID-19*.
- Santos, J. A., & Neves, M. M. (2008). A local maximum likelihood estimator for Poisson regression. *Metrika*, 68(3), 257–270. <https://doi.org/10.1007/s00184-007-0156-1>
- Sharma, A., Lall, U., & Tarboton, D. G. (1998). Kernel bandwidth selection for a first order nonparametric streamflow simulation model. *Stochastic Hydrology and Hydraulics*, 12(1), 33–52. <https://doi.org/10.1007/s004770050008>
- Shi, P., & Valdez, E. A. (2014). Multivariate negative binomial models for insurance claim counts. *Insurance: Mathematics and Economics*, 55(1), 18–29. <https://doi.org/10.1016/j.insmatheco.2013.11.011>
- Shim, J., & Hwang, C. (2011). Kernel Poisson regression machine for stochastic claims reserving. *Journal of the Korean Statistical Society*, 40(1), 1–9. <https://doi.org/10.1016/j.jkss.2010.01.004>
- Tenreiro, C. (2013). Boundary kernels for distribution function estimation. *Revstat Statistical Journal*, 11(2), 169–190.
- Tibshirani, R., & Hastie, T. (1987). Local likelihood estimation. *Journal of the American Statistical Association*, 82(398), 559–567. <https://doi.org/10.1080/01621459.1987.10478466>
- Tohari, A., Chamidah, N., & Fatmawati. (2019). Modeling of HIV and AIDS in Indonesia Using Bivariate Negative Binomial Regression. *IOP Conference Series: Materials Science and Engineering*, 546, 1–6. <https://doi.org/10.1088/1757-899x/546/5/052079>
- Tohari, A., Chamidah, N., & Fatmawati. (2020a). Modelling of HIV and AIDS Cases in Indonesia Using Bi-response Negative Binomial Regression Approach Based on

- Local Linear Estimator. *Annals of Biology*, 36(2), 215–219.
- Tohari, A., Chamidah, N., & Fatmawati. (2020b). *Modelling The Number of HIV and AIDS Case in East Java Using Bi-response Negative Binomial Regression Multi-predictor Based on Local Linear Estimator*. Draft.
- Tohari, A., Chamidah, N., & Fatmawati. (2020c). Estimating Model of the number of HIV and AIDS Cases in East Java Using Bi-response Negative Binomial Regression Using Local Linear Estimator Approach. *AIP Conference Proceedings*, 1–7.
- Tohari, A., Chamidah, N., & Fatmawati. (2020d). Modeling The Number of Confirmed and Suspect Covid-19 in East Java Using Bi-response Negative Binomial Regression Based on Local Linear Estimator Approach. *International Conference On Mathematics, Computational Sciences and Statistics 2020*, Under Review.
- UNAIDS. (2018). *UNAIDS Data 2018*.
- Walsh, B. (2002). *Introduction to Bayesian Analysis. Lecture notes*.
- Wang, X., Shen, J., & Ruppert, D. (2011). On the asymptotics of penalized spline smoothing. *Electronic Journal of Statistics*, 5, 1–17. <https://doi.org/10.1214/10-EJS593>
- Wang, Y., Zheng, W., Zhang, D., & Zhang, L. (2017). Pulsar profile denoising using kernel regression based on maximum correntropy criterion. *Optik*, 130, 757–764. <https://doi.org/10.1016/j.ijleo.2016.10.132>
- Wasserman, L. (2006). *All of Nonparametric Statistic*. Springer.
- www.kawalcovid19.id. (n.d.). www.kawalcovid19.id.
- Young, J., Graham, P., & Blakely, T. (2006). Modeling the relation between socioeconomic status and mortality in a mixture of majority and minority ethnic groups. *American Journal of Epidemiology*, 164(3), 282–291. <https://doi.org/10.1093/aje/kwj171>