

Name	Dr. Emilya Nurjani, S.Si., M.Si.
Position	Lecturer in Faculty of Geography Universitas Gadjah Mada Speciality: Hydro-climatology
Academic career	<ol style="list-style-type: none"> 1. <i>Doctorate in Geography</i> (Universitas Gadjah Mada, 2015) 2. <i>Graduate in Environmental Science</i> (Universitas Gadjah Mada, 2002) 3. Undergraduate in Geography (Universitas Gadjah Mada, 1996)
Employment	-
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. Climate Change Data Acquisition Using Proxy ¹⁸O and ¹³C Stalagmit, Institutional Grant, LPPM UGM (2012) 2. Water Availability of Rain Water Storage (PAH) Result to Domestic Water needs for Determination of Critical Water in Hargosari, Tajungsari Distric, Gunungkidul Regency, Collaboration Student-Lecturer Research, BOPTN (2012) 3. Hurricane Disaster Studies in Indonesia Period 1999-2011, Collaboration Student-Lecturer Research, BOPTN (2012) 4. Global Warming Studies in Special Capital Region of Jakarta (DKI Jakarta) – in partner with Engeenering Faculty UGM (2013) 5. Spatial-Temporal Analysis of Rainfall in Opak Watershed Using Multiple Methods for Climate Change and Anticipation, Grant Faculty of Geography, (2013) 6. Drought Analysis Using Standarization Precipitation Index (SPI) Method Bali Island, Lecturer-Student Incentive Grant, DIKTI (2013) 7. Land Use Change Mapping Using Geographic Information System in Sleman Regency, Vocational School Grant UGM (2013) 8. Groundwater Potential Zonation Using Multiple Parametres Fields and GIS Approach in Progo Coastal, Vocational School Grant UGM (2014) 9. Utilization of Geographic Information System in Asseing of Climate Change Impacts to Agricultural Production and Productivity in DIY, Vocational School Grant UGM (2014) 10. Simulation of evapotranspiration sensitivity to Climate Change in Sleman Regency, Faculty of Geography Grant (2014) 11. Simply Lysimeter Design to Evapotranspiration Measurements, Faculty of Geography Grant (2015) 12. Analysis of Hydrometeorological Potential Disaster in Java-Based on Climate change Projection Method, Excellent Research Higher Education, DIKTI (2015) 13. Weather Prediction Model Development for anticipation of Extreme Weather and Climate Change in Indonesia, STRANAS Grant, DIKTI (2015) 14. Analysis of Hydrometeorological Potential Disaster in Java-Based on Climate change Projection Method (Second Year), Excellent Research Higher Education, DIKTI (2016)

	<ol style="list-style-type: none"> 15. Weather Prediction Model Development for anticipation of Extreme Weather and Climate Change in Indonesia (Second Year), STRANAS Grant, DIKTI (2015) 16. Vulnerability of Water Resources in Klaten Regency, Faculty of Geography Grant UGM (2016) 17. Identify Tropical Frost as a Hydrometeorological Disaster in Dieng Plateau, Faculty of Geography Grant UGM (2017) 18. Development of Articulated Weather Generator System for Seasonal Climate Prediction (AGenSGP) for Decision Making Process of Local Agricultural Adaptation Patterns in Climate Change (2018)
Industry collaborations over the last 5 years	-
Patents and proprietary rights	-
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Cahyadi, A., Nurjani, E., Nugroho, E., and Nugraha, H. (2011). Estimation of soil organic carbon loss by runoff and It's role on management of ungauged watershed. Proceeding of International Seminar on Applied Technology, Science and Arts (APTECS), pp:609-613, Sepuluh November Institute of Technology, Surabaya, ISSN 2086-1931 2. Dipayana, G.A., Nurjani, E., and Adji, T.N. (2012). Spatial distribution estimation of groundwater recharge value using water budget model and GIS in Opak Watershed, DIY, Proceeding of Nasional Seminar SciTec: Development of Theory, Engineering and Application To achieve a Sustainable Energy Supply, pp:1-7, Brawijaya University, Malang, ISBN 978-602-97961-1-7 3. Dipayana, G.A., Cahyadi, A., and Nurjani, E. (2012). Trend analysis of drought occurrence due to El Nino phenomena in DIY, Proceeding of National Seminar of Remote Sensing and Geographic Information System, pp:460-465, Muhammadiyah University of Surakarta, Surakarta 4. Dipayana, G.A., Cahyadi, A., Mutaqin, B.W., and Nurjani, E. (2012) Climate change impacts on erosivity value in Opak watershed based on climate change HadCM3 scenario of A2 and B2 emission scenarios, Proceeding National Science Seminar, Engineering, and Technology (SciTec), Brawijaya University, Malang 5. Nurjani, E. (2012). Limestone mining in karst area in the perspective of water resource observation and climate change mitigation (A Study of Limestone Mining in Gunungkidul), Proceeding International Seminar Green Economy for Sustainable Development, Universitas Ahmad Dahlan, Yogyakarta, 6. Nurjani, E., Rahayu, A., and Racmawaty F. (2012). Hurricane disaster studies in Indonesia period 1999-2011: A disaster

	<p>mitigation effort, Geomedia Journal of Geography Science, Vo.11 No.2, pp:191-2016</p> <ol style="list-style-type: none"> 7. Nurjani, E. (2015). Analysis of climate change impacts to meteorological planting pattern based on climate modeling in Opak watershed DIY, Proceeding of National Seminar Applied Technology of Vocational School, UGM, Yogyakarta 8. Kusumo, F.A., Gunardi, Utami, H., Nurjani E., Sopaheluwakan A., Aluicius I.E., and Christiawan, T. (2015). Application of th empirical orthogonal function to study the rainfall pattern in Daerah Istimewa Yogyakarta, International Conference on Mathematics and Its Applications : Enhancing the Role of Mathematics in Interdisciplinary Research (The 7th SEAMS UGM), University of Gadjah Mada, Yogyakarta 9. Harini, R., Susilo, B., and Nurjani, E. (2015). Geographic information system-based spatial analysis of agricultural land suitability in Yogyakarta, International Journal of Geography Volume 47, No 2, pp: 160-170 ISSN 0024-9521 10. Harini, R., Susilo, B., and Nurjani, E. (2016). The Impact of Climate Change on the Agricultural Sector in the Urban Fringe Area of Yogyakarta, Proceeding The 13th International Asian Urban Conference Rapid Urbanization and Sustainable development in Asia, pp:749-773, University of Gadjah Mada, Yogyakarta 11. Nurjani, E and Harini, R. (2016). Estimation and Mapping of Potential Climate Change Impacts to Agricultural in Opak wetershed, International Journal of Community Engagement Volume 1, Nomor 2 ISSN 2477-5030 12. Nurrohmah, H., dan Nurjani, E., 2017. Kajian Kekeringan Meteorologis Menggunakan Standardized Precipitation Index (SPI) di Provinsi Jawa tengah. Geomedia Vol 15 No 1. FPIPS UNY 13. Utami, H., Kusumo, Fa., Gunardi, Nurjani, E., (march 2017) Toda Yamamoto approximation for the granger causality analysis of climate attributes in Yogyakarta, Far East Journal of Mathematical Scineces (FJMS), Volume 101, Issue 5, Pages 1073 – 1083 http://dx.doi.org/10.17654/MS101051073
Activities in specialist bodies over the last 5 years	-