

# Dimitrios Gouliermis

## List of Publications

March 22, 2010

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## 1 Scientific Articles In Refereed Journals

### 1.1 Published / Accepted / In Press

(In reverse chronological order)

23. “Recent star formation in low metallicities. The star-forming region NGC 346/N66 in the Small Magellanic Cloud from near-infrared VLT/ISAAC observations”, D. A. Gouliermis, J. M. Bestenlehner, W. Brandner, Th. Henning, *Astronomy & Astrophysics*, Accepted (2010)
22. “Resolved young stellar populations in star-forming regions of the Magellanic Clouds”, D. A. Gouliermis, *Physica Scripta*, Review in press (2010)
21. “Assessment of stellar stratification in three young star clusters in the Large Magellanic Cloud”, D. A. Gouliermis, D. Mackey, Y. Xin, B. Rochau, *Astrophysical Journal*, **709**, 263 (2010)
20. “The complete initial mass function down to the sub-solar regime in the Large Magellanic Cloud with Hubble Space Telescope ACS observations”, N. Da Rio, D. A. Gouliermis, Th. Henning, *Astrophysical Journal*, **696**, 528 (2009)
19. “The Clustering Behavior of Pre-Main-Sequence Stars in NGC 346 in the Small Magellanic Cloud”, S. Schmeja, D. A. Gouliermis, R. S. Klessen, *Astrophysical Journal*, **694**, 367 (2009)
18. “A new diagnostic method for assessment of stellar stratification in star clusters”, D. A. Gouliermis, R. de Grijs, Y. Xin, *Astrophysical Journal*, **692**, 1678 (2009)
17. “NGC 346 in the Small Magellanic Cloud. IV. Triggered star formation in the HII region N 66”, D. A. Gouliermis, Y.-H. Chu, Th. Henning, W. Brandner, R. A. Gruendl, E. Hennekemper, F. Hormuth, *Astrophysical Journal*, **688**, 1050 (2008)
16. “The initial mass function of the stellar association NGC 602 in the small magellanic cloud with Hubble Space Telescope ACS observations”, M. Schmalzl, D. A. Gouliermis, A. E. Dolphin, Th. Henning, *Astrophysical Journal*, **681**, 290 (2008)
15. “NGC 346 in the Small Magellanic Cloud. III. Recent star formation and stellar clustering properties in the bright HII region N 66”, E. Hennekemper, D. A. Gouliermis, Th. Henning, W. Brandner, A. E. Dolphin, *Astrophysical Journal*, **672**, 914 (2008)

14. “Discovery of the pre-main-sequence population of the stellar association LH 95 in the Large Magellanic Cloud with Hubble Space Telescope Advanced Camera for Surveys observations”, D. A. Gouliermis, Th. Henning, W. Brandner, A. E. Dolphin, M. Rosa, & B. Brandl, *Astrophysical Journal Letters*, **665**, L27 (2007)
13. “Clustered star formation in the Small Magellanic Cloud: Spitzer view of the star-forming region NGC 602”, D. A. Gouliermis, S. P. Quanz & Th. Henning, *Astrophysical Journal*, **665**, 306 (2007)
12. “The star-forming region NGC 346 in the Small Magellanic Cloud with Hubble Space Telescope ACS observations II. Photometric study of the intermediate-age cluster BS 90”, B. Rochau, D. A. Gouliermis, W. Brandner, A. E. Dolphin & Th. Henning, *Astrophysical Journal*, **664**, 322 (2007)
11. “HST WFPC2 observations of the peculiar main sequence of the double star cluster NGC 2011 in the Large Magellanic Cloud”, D. A. Gouliermis, Lianou, S., Kontizas, M., Kontizas, E., & Dapergolas, A., *Astrophysical Journal Letters*, **652**, L93 (2006)
10. “The star-forming region NGC 346 in the Small Magellanic Cloud with Hubble Space Telescope ACS observations I. Photometry”, D. A. Gouliermis, A. E. Dolphin, W. Brandner & Th. Henning, *Astrophysical Journal Supplements*, **166**, 549 (2006)
9. “The low-mass initial mass function of the field population in the Large Magellanic Cloud with Hubble Space Telescope WFPC2 observations”, D. Gouliermis, W. Brandner & Th. Henning, *Astrophysical Journal*, **641**, 838 (2006)
8. “The low-mass pre-main-sequence population of the stellar association LH 52 in the Large Magellanic Cloud discovered with Hubble Space Telescope WFPC2 observations”, D. Gouliermis, W. Brandner & Th. Henning, *Astrophysical Journal Letters*, **636**, L133 (2006)
7. “The initial mass function toward the low-mass end in the Large Magellanic Cloud with Hubble Space Telescope WFPC2 observations”, D. Gouliermis, W. Brandner & Th. Henning, *Astrophysical Journal*, **623**, 846 (2005)
6. “Mass segregation in young Magellanic Clouds star clusters: Four clusters observed with HST”, D. Gouliermis, S. C. Keller, M. Kontizas, E. Kontizas, & I. Bellas-Velidis, *Astronomy & Astrophysics*, **416**, 137 (2004)

5. “*OB stellar associations in the Large Magellanic Cloud: Survey of young stellar systems*”, D. Gouliermis, M. Kontizas, E. Kontizas & R. Korakitis, *Astronomy & Astrophysics*, **405**, 111 (2003)
4. “*Three stellar associations and their field east of LMC 4 in the Large Magellanic Cloud*”, D. Gouliermis, S.C. Keller, K.S. de Boer, M. Kontizas & E. Kontizas, *Astronomy & Astrophysics*, **381**, 862 (2002)
3. “*The role of central density in the evolution and formation of LMC clusters. Observational evidence*”, M. Kontizas, E. Kontizas, D. Gouliermis, S.C. Keller, R. Korakitis, I. Bellas-Velidis & D.H. Morgan, *Astronomical & Astrophysical Transactions*, **20**, 65 (2001)
2. “*OB stellar associations in the Large Magellanic Cloud: Identification method*”, D. Gouliermis, M. Kontizas, R. Korakitis, D. H. Morgan, E. Kontizas & A. Dapergolas, *Astronomical Journal*, **119**, 1737 (2000)
1. “*Mass segregation in two young clusters in the Large Magellanic Cloud: SL 666 and NGC 2098*”, M. Kontizas, D. Hatzidimitriou, I. Bellas-Velidis, D. Gouliermis, E. Kontizas & R. D. Cannon, *Astronomy & Astrophysics*, **336**, 503 (1998)

## 1.2 Submitted

1. “*Variations of pre-main sequence populations around the super-giant shell LMC 4 revealed with HST*”, D. A. Gouliermis, A. E. Dolphin, M. Robberto, M. R. Rosa, W. Brandner, Y.-H. Chu, G. De Marchi, R. A. Gruendl, Th. Henning, N. Panagia, M. Romaniello, & H. Zinnecker, *Astrophysical Journal Letters*
2. “*Internal dynamics and membership of NGC 3603 young cluster from microarcsec astrometry*”, B. Rochau, W. Brandner, A. Stolte, M. Gennaro, D. A. Gouliermis, N. Da Rio, N. Dzyurkevich, Th. Henning, *Astrophysical Journal Letters*

## 1.3 In Preparation

1. “*Accurate assessment of age-spread among pre-main-sequence stars in the young cluster LH 95 in the Large Magellanic Cloud*”, N. Da Rio, D. A. Gouliermis, & M. Gennaro
2. “*Young stellar objects in the star-forming regions W3 (Main) and W49 N from Spitzer Space Telescope imaging*”, D. A. Gouliermis, A. Bik, M. Gennaro, et al.

3. “A near-IR view of the star-forming region LH 95/N64 in the Large Magellanic Cloud with VLT NACO imaging and SINFONI spectroscopy”, D. A. Gouliermis, N. Da Rio, A. Bik, M. Janson, W. Brandner, & Th. Henning
4. “Study of stellar stratification in NGC 3603 Young Cluster with HST/WFC3 early release observations”, D. A. Gouliermis, B. Rochau, F. Paresce, et al.
5. “The bright stellar content of the star-forming region LH 95/N64 in the Large Magellanic Cloud with ESO/MPG 2.2-m FEROS spectroscopy”, N. Da Rio, D. A. Gouliermis, A. Pasqualli, et al.
6. “Hierarchical Star Formation in the Local Group Dwarf Galaxy NGC 6822”, D. A. Gouliermis, S. Schmeja, R. S. Klessen, W. J. G. de Blok, & F. Walter

## 2 Conference Contributions

(International only meetings in reverse chronological order)

12. “Hierarchical clustering in the Local Group dwarf galaxy NGC 6822”  
S. Schmeja, D. A. Gouliermis, R. S. Klessen, W. J. G. de Blok, & F. Walter, IAU Symposium 266, “Star clusters: basic galactic building blocks throughout time and space”, eds. R. de Grijs & J. R. D. Lépine (Cambridge: Cambridge University Press), p. 538 (2010)
11. “A Hubble View of Star Forming Regions in the Magellanic Clouds”  
D. A. Gouliermis, Th. Henning, W. Brandner, M. R. Rosa, A. E. Dolphin, M. Schmalzl, E. Hennekemper, H. Zinnecker, N. Panagia, Y.-H. Chu, B. Brandl, S. P. Quanz, M. Robberto, G. De Marchi, R. A. Gruendl, M. Romaniello, in 41<sup>st</sup> ESLAB Symposium: *The Impact of HST on European Astronomy*, ed. F. D. Macchetto (Springer: Astrophysics and Space Science Proceedings), p. 71 (2010)
10. “The sub-solar Initial Mass Function in the Large Magellanic Cloud”  
D. A. Gouliermis, IAU Symposium 256, “The Magellanic System: Stars, Gas, and Galaxies”, eds. J. Th. van Loon & J. M. Oliveira (Cambridge: Cambridge University Press), p. 250 (2009)
9. “Clustered Star Formation in the Magellanic Clouds”  
D. A. Gouliermis, IAU Symposium 246, “Dynamical Evolution of Dense Stellar Systems”, eds. E. Vesperini et al. (Cambridge: Cambridge University Press), p. 61 (2008)

8. *“The search for the sub-solar IMF in the Magellanic Clouds”*  
D. Gouliermis, A. Berton, W. Brandner, Th. Henning, & M. Feldt, IAU Symposium 232, “The Scientific Requirements for Extremely Large Telescopes”, eds. P. Whitelock et al. (Cambridge: Cambridge University Press), p. 261 (2006)
  
7. *“Stellar associations in the LMC. Best tracers of the Initial Mass Function?”*  
D. Gouliermis, W. Brandner, Th. Henning, in “The Initial Mass Function 50 years later”, eds. E. Corbelli, F. Palla, & H. Zinnecker (ASSL: Kluwer Academic Publishers), p. 199 (2005)
  
6. *“SBF: A Case for Extremely Large Telescopes”*  
D. Gouliermis, W. Brandner, D. Butler, S. Hippler, 2005, in “Science with Adaptive Optics”, eds. W. Brandner & M. Kasper (Springer-Verlag), p. 334 (2005)
  
5. *“Stellar Associations and the Field East of LMC 4 in the Large Magellanic Cloud”*  
D. Gouliermis, S.C. Keller, K.S. de Boer, M. Kontizas & E. Kontizas, in MPIA Workshop on “Modes of Star Formation and the Origin of Field Populations”, Heidelberg, October 9 - 13, 2000, eds. E. K. Grebel & W. Brandner, ASP Conf. Ser., Vol. 285, ASP Conf. Ser. (San Francisco), p. 320 (2002)
  
4. *“A Search for Mass Segregation in Four Young Magellanic Cloud Clusters”*  
 S.C. Keller, M. Kontizas, D. Gouliermis, I. Bellas-Velidis, M.S Bessell, E. Kontizas, G.S. da Costa, in “Dynamics of Star Clusters and the Milky Way”, ASP Conf. Ser., Vol. 228, eds. S. Deiters et al. (ASP Conf. Ser. San Francisco), ISBN: 1-58381-060-9, p. 473 (2001)
  
3. *“Formation of star clusters in the Magellanic Clouds”*  
 M. Kontizas, E. Kontizas, V. Missoulis, D. Gouliermis & A. Dapergolas, in “New Horizons of Computational Science”, eds. T. Ebisuzaki & J. Makino, Astrophysics and Space Science Library, Vol. 263 (Dordrecht: Kluwer Academic Publishers) ISBN: 0792370503, p. 243 (2001)
  
2. *“Stellar Associations in the LMC”*  
 E. Kontizas, M. Kontizas, D. Gouliermis, A. Dapergolas, R. Korakitis and D. H. Morgan, IAU Symposium 190, “New Views of the Magellanic Clouds”, eds. Y-H. Chu et al. (ASP Conf. Ser. San Francisco), ISBN: 1-58381-021-8, p. 410 (1999)

1. “*Central densities of star clusters in the Magellanic Clouds – Comparison with our Galaxy*” M. Kontizas, D. Gouliermis & E. Kontizas, IAU Symposium 174, “Dynamical Evolution of Star Clusters - Confrontation of Theory and Observations”, eds. P. Hut & J. Makino (Kluwer Academic Publishers), p. 325 (1996)

### 3 Various Publications

1. “*LMC Survey of Young Stellar Systems*”, VizieR Online Data Catalog, 340, 50111 , 2003, D. Gouliermis, M. Kontizas, E. Kontizas & R. Korakitis.
2. “*Star Formation in the Magellanic Clouds*”, in “Max Planck Institute for Astronomy Annual Report 2005”, D. Gouliermis, W. Brandner & Th. Henning.
3. “*In der GMW: Sternentstehung im Detail*”, in *Sterne und Weltraum*, November 2006.
4. “*HST/ACS observations of NGC 346*”, VizieR Online Data Catalog, 216, 60549, 2007, D. Gouliermis, A. E. Dolphin, W. Brandner & Th. Henning.
5. “*The Dynamics of Star Formation in NGC 346*”, in “Max Planck Institute for Astronomy Annual Report 2009”, D. Gouliermis, W. Brandner, Th. Henning, E. Hennekemper & F. Hortmuth.