CURRICULUM VITAE OF MARIANGELA BERNARDI  
(July 2023)  
Department of Physics and Astronomy  
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Phone: (215) 573 6251   Email: bernardm@physics.upenn.edu  
Date/Place of birth: 24 August 1971, Sandrigo, Italy

FACULTY APPOINTMENTS:  
July 2020 -  Professor  University of Pennsylvania  
July 2010 - June 2020  Associate Professor  University of Pennsylvania  
Jan 2005 - June 2010  Assistant Professor  University of Pennsylvania

RESEARCH EXPERIENCE:  
Mar 2004 - Dec 2004  Research Associate  University of Pittsburgh  
Mar 2002 - Feb 2004  Research Associate  Carnegie Mellon University  
Jan 2000 - Feb 2002  Research Associate  University of Chicago

HIGHER EDUCATION:  
Dec. 1999  Ph.D. in Astrophysics  (Magna cum Laude)  L.M.U. Munich  
Dec. 1995  Laurea in Astronomy  (Magna cum Laude)  U. Padova

RESEARCH ACCOMPLISHMENTS:

- **149 published papers** with a **total of 34,000+ citations**;
- **31 first author papers** with **3200+ citations** of which **10 have more than 150 citations/paper**;
- **86 papers** where I am one of the first three authors (**6500+ citations**);
- h-index of 69.
REFEREED PUBLICATIONS:

Publications are divided in two sets: Major Role and Contributed.
In the following, underlined names refer to students, postdocs and visitors while in my group.

MAJOR ROLE:

1. Identification of tidal features in deep optical galaxy images with Convolutional Neural Networks
Dominguez Sanchez, H., Martin, G., Damjanov, I., Buitrago, F., Huertas-Company, M., Bottrell, C., Bernardi, M., Knappen, J. H., Vega-Ferrero, J., Hausen, R., Kado-Fong, E., Poblacion-Criado, D., Souchereau, H., Leste, O. K., Robertson, B., Sahelices, B., & Johnston, K. V. 2023, MNRAS, 521, 3861 – 3872

2. Revisiting the SFR-Mass relation at z=0 with detailed deep learning based morphologies
Dominguez Sanchez, H., Bernardi, M., & Huertas-Company, M. 2023, Memorie della SAIt., EAS 2022 S11 (arXiv:2302.12265)

3. Stellar population analysis of MaNGA early-type galaxies: IMF dependence and systematic effects
Bernardi, M., Dominguez Sanchez, H., Sheth, R. K., Brownstein, J. R., & Lane, R. R. 2023, MNRAS, 518, 4713 – 4733

4. The half mass radius of MaNGA galaxies: effect of IMF gradients
Bernardi, M., Sheth, R. K., Dominguez Sanchez, H., Margalef-Bentabol, B., Bizyaev, D., & Lane, R. R. 2023, MNRAS, 518, 3494 – 3508

5. Lesson Learned from Two Largest Galaxy Morphological Classification Catalogues built by Convolutional Neural Networks
Cheng, T.-Y., Dominguez Sanchez, H., Vega-Ferrero, J., Conselice, C. J., Siudek, M., Aragón-Salamanca, Bernardi, M., Cooke, R., Ferreira, L., Huertas-Company, M., Krywult, J., Palmese, A., Pieres, A., Plazas Malagón, A. A. et al. (+ 40 co-authors) 2023, MNRAS, 2794 – 2809

6. Testing the key role of the stellar mass-halo mass relation in galaxy merger rates and morphologies via DECODE, a novel Discrete statistical sEmi-empiriCal mODEl
Fu, H., Shankar, F., Ayromlou, M., Dickson, M., Koutsouridou, I., Rosas-Guevara, Y., Marsden C., Bernardi, M., Shiamtanis, N. et al. (+12 co-authors) 2022, MNRAS, 516, 3206 – 3233

7. Coincidence between morphology and star-formation activity through cosmic time: the impact of the bulge growth
Dimauro, P., Daddi, E., Shankar, F., Cattaneo, A., Bernardi, M., Huertas-Company, M., (+ 7 co-authors) 2022, MNRAS, 513, 256 – 281

8. The weak dependence of velocity dispersion on disc fractions, mass-to-light ratio, and redshift: implications for galaxy and black hole evolution
Marsden, C., Shankar, F., Bernardi, M., Sheth, R. K., Fu, H., & Lapi, A. 2022, MNRAS, 510, 5639 – 5660
9. SDSS-IV DR17: final release of MaNGA PyMorph photometric and deep-learning morphological catalogues
Dominguez Sanchez, H., Margalef-Bentabol, B., Bernardi, M., & Huertas-Company, M. 2022, MNRAS, 509, 4024 – 4036

10. SDSS-IV MaNGA: drivers of stellar metallicity in nearby galaxies
Neumann, J., Thomas, D., Maraston, C., Goddard, D., Lian, J., Hill, L., Dominguez Sanchez, H., Bernardi, M., Margalef-Bentabol, B., Barrera-Ballesteros, J. K., Bizyaev, D., Boardman, N. F., Drory, N., Fernández-Trincado, J. G., & Lane, R. 2021, MNRAS, 508, 4844 – 4857

11. Pushing automated morphological classifications to their limits with the Dark Energy Survey
Vega-Ferrero, J., Dominguez-Sanchez, H., Bernardi, M., Huertas-Company, M., Morgan, R., Margalef-Bentabol, B. et al. (and 56 co-authors) 2021, MNRAS, 506, 1927 – 1943

12. The size function of massive satellites from the $R_e - R_h$ and $M_e - M_h$ relations: constraining the role of environment
Zanisi, L., Shankar, F., Bernardi, M., Mei, S., & Huertas-Company, M. 2021, MNRAS, 505, L84-L89

13. On the Presence of a Universal Acceleration Scale in Elliptical Galaxies
Chae, K.-H., Bernardi, M., Dominguez-Sanchez, H. & Sheth, R. K. 2020, ApJL, 903, 31 (6 pp)

14. The Stellar Mass Fundamental Plane: The virial relation and a very thin plane for slow-rotators
Bernardi, M., Dominguez-Sanchez, H., Margalef-Bentabol, B., Nikakhtar, F., & Sheth, R. K. 2020, MNRAS, 494, 5148 – 5160

15. Detecting outliers in astronomical images with deep generative networks. I. WGANs
Margalef-Bentabol, B., Huertas-Company, M., Charnock, T., Margalef-Bentabol, C., Bernardi, M., Dubois, Y., Lanusse, F., Leuthaud, A., Storey-Fisher, K. & Zanisi, L. 2020, MNRAS, 496, 2346 – 2361

16. Galaxy properties as revealed by MaNGA. III. Kinematic profiles and stellar population gradients in S0s
Dominguez-Sanchez, H., Bernardi, M., Nikakhtar, F., Margalef-Bentabol, B. & Sheth, R. K. 2020, MNRAS, 495, 2894 – 2908

17. Constraining black hole-host galaxy scaling relations from the large-scale clustering of Active Galactic Nuclei: Implications for the mean radiative efficiency of supermassive black holes
Shankar, F., Allevato, V., Bernardi, M., Marsden, C., Lapi, A., Menci, N., Grylls, P. J., Zanisi, L., Moreno, J., Krumpe, M. & Sheth, R. K. 2020, Nature Astronomy, 4, 282 – 291

18. Probing black hole accretion tracks, scaling relations and radiative efficiencies from stacked X-ray active galactic nuclei
Shankar, F., Weinberg, D. H., Marsden, C., Grylls, P. J., Bernardi, M., Yang, G.,
Moster, B., Carraro, R., Alexander, D. M. et al. (and 19 co-authors) 2020, MNRAS, 493, 1500 – 1511

19. Galaxy sizes and the galaxy-halo connection - I. The remarkable tightness of the size distributions
Zanisi, L., Shankar, F., Lapi, A., Menci, N., Bernardi, M., Duckworth, C., Huertas-Company, M., Grylls, P. & Salucci, P. 2020, MNRAS, 492, 1671 – 1690

20. Galaxy properties as revealed by MaNGA II. Differences in stellar populations of slow and fast rotator ellipticals and dependence on environment
Bernardi, M., Dominguez-Sanchez, H., Brownstein, J. R., Drory, N. & Sheth, R. K. 2019, MNRAS, 489, 5633 – 5652

21. Galaxy properties as revealed by MaNGA. I. Constraints on IMF and $M_*/L$ gradients in ellipticals
Dominguez-Sanchez, H., Bernardi, M., Brownstein, J. R., Drory, N. & Sheth, R. K. 2019, MNRAS, 489, 5612 – 5632

22. Radial Acceleration Relation between Baryons and Dark or Phantom Matter in the Super-critical Acceleration Regime of Nearly Spherical Galaxies
Chae, K.-H., Bernardi, M., Sheth, R. K. & I. T. Gong 2019, ApJ, 877, 18 – 40

23. Modeling Nearly Spherical Pure-Bulge Galaxies with a Stellar Mass-to-Light Ratio Gradient under the ΛCDM and MOND Paradigms: II. The Orbital Anisotropy of Slow Rotators within the Effective Radius
Chae, K.-H., Bernardi, M., Sheth, R. K. 2019, ApJ, 874, 41 – 60

24. Black hole scaling relations of active and quiescent galaxies: Addressing selection effects and constraining virial factors
Shankar, F., Bernardi, M., Richardson, K., Marsden, C., Sheth, R. K., Allevato, V., Graziani, L., Mezcua, M., Ricci, F., Penny, S. J., La Franca, F. & Pacucci, F. 2019, MNRAS, 485, 1278 – 1292

25. Transfer learning for galaxy morphology from one survey to another
Dominguez-Sanchez, H., Huertas-Company, M., Bernardi, M., Kaviraj, S., Fischer, J.-L. et al. (and 54 co-authors) 2019, MNRAS, 484, 93 – 100

26. SDSS-IV MaNGA PyMorph Photometric and Deep Learning Morphological Catalogues and implications for bulge properties and stellar angular momentum
Fischer, J.-L., Dominguez-Sanchez, H. & Bernardi, M. 2019, MNRAS, 483, 2057 – 2077

27. A statistical semi-empirical model: satellite galaxies in groups and clusters
Grylls, P. J., Shankar, F., Zanisi, L. & Bernardi, M. 2019, MNRAS, 483, 2506 – 2523

28. Modeling Nearly Spherical Pure-Bulge Galaxies with Stellar Mass-to-Light Ratio Gradient under ΛCDM and MOND Paradigms: I. Methodology, Dynamical Stellar Mass and Fundamental Mass Plane
Chae, K.-H., Bernardi, M. & Sheth, R. K. 2018, ApJ, 860, id. 81, 17
29. A catalog of polychromatic bulge-disk decompositions of $\sim 17,600$ galaxies in CANDELS
Dimauro, P., Huertas-Company, M., Daddi, E., Perez-Gonzalez, P. G., Bernardi, M., Barro, G. Buitrago, F., Caro, F., Cattaneo, A., Domínguez-Sánchez, H., Faber, S. M.; Häusler, B., Kocevski, D. D., Koekemoer, A. M., Koo, D. C., Lee, G. T., Mei, S., Margalef-Bentabol, B., Primack, J., Rodriguez-Puebla, A., Salvato, M., Shankar, F. & Tucciolo, D. 2018, MNRAS, 478, 5410 – 5426

30. $M_*/L$ gradients driven by IMF variation: Large impact on dynamical stellar mass estimates
Bernardi, M., Sheth, R. K., Domínguez-Sanchez, H., Fischer, J.-L., Chae, K.-H., Huertas-Company, M. & Shankar, F. 2018, MNRAS, 477, 2560 – 2571

31. Improving galaxy morphologies for SDSS with Deep Learning: GZOO classification scheme and T-Type catalogues
Domínguez-Sanchez, H., Huertas-Company, M., Bernardi, M. & Fischer, J.-L. 2018, MNRAS, 476, 3661 – 3676

32. Stellar mass functions and implications for a variable IMF
Bernardi, M., Sheth, R. K., Fischer, J.-L., Meert, A., Chae, K.-H., Domínguez-Sanchez, H., Huertas-Company, M., Shankar, F. & Vikram, V. 2018, MNRAS, 475, 757 – 771

33. Comparing PyMorph and SDSS photometry. II. The differences are more than semantics and are not dominated by intracluster light
Bernardi, M., Fischer, J.-L., Sheth, R. K., Meert, A., Huertas-Company, M., Shankar, F. & Vikram, V. 2017, MNRAS, 468, 2569 – 2581

34. Comparing PyMorph and SDSS photometry. I. Background sky and model fitting effects
Fischer, J.-L., Bernardi, M. & Meert, A. 2017, MNRAS, 467, 490 – 500

35. Selection bias in dynamically-measured supermassive black hole samples: Scaling relations and correlations between residuals in semi-analytic galaxy formation models Barausse, E., Shankar, F., Bernardi, M., Dubois, Y. & Sheth, R. K. 2017, MNRAS, 468, 4782 – 4791

36. The high mass end of the stellar mass function: Dependence on stellar population models and recent agreement on fits to the light profile
Bernardi, M., Meert, A., Sheth, R. K., Fischer, J.-L., Huertas-Company, M., Maraston, C., Shankar, F. & Vikram, V. 2017, MNRAS, 467, 2217 – 2233

37. Selection bias in dynamically-measured super-massive black hole samples: dynamical masses and dependence on Sérsic index Shankar, F., Bernardi, M. & Sheth, R. K. 2017, MNRAS, 466, 4029 – 4039

38. Mass assembly and morphological transformations since $z \sim 3$ from CANDELS Huertas-Company, M., Bernardi, M., Perez-Gonzalez, P. G., Barro, G., Daddi, E., Dimauro, P., Faber, S., Koo, D., Mei, S. & Shankar, F. 2016, MNRAS, 462, 4495 – 4516
39. Selection bias in dynamically-measured super-massive black hole samples: consequences for pulsar timing arrays
Sesana, A., Shankar, F., Bernardi, M. & Sheth, R. K. 2016, MNRAS, 463, L6 – L11

40. Selection bias in dynamically-measured super-massive black holes: its consequences and the quest for the most fundamental relation
Shankar, F., Bernardi, M., Sheth, R. K., Ferrarese, L., Graham, A. W., Savorgnan, G., Allevato, V., Marconi, A., Läsker, R. & Lapi, A. 2016, MNRAS, 460, 3119 – 3142

41. The massive end of the luminosity and stellar mass functions and clustering from CMASS to SDSS: Evidence for and against passive evolution
Bernardi, M., Meert, A., Sheth, R. K., Huertas-Company, M., Maraston, C., Shankar, F. & Vikram, V. 2016, MNRAS, 455, 4122 – 4135

42. A Catalogue of Two-Dimensional Photometric Decompositions in the SDSS-DR7 Spectroscopic Main Galaxy Sample: Extension to g- and i-Bands
Meert, A., Vikram, V. & Bernardi, M. 2016, MNRAS, 455, 2440 – 2452

43. A Catalogue of Two-Dimensional Photometric Decompositions in the SDSS-DR7 Spectroscopic Main Galaxy Sample: Preferred Models and Systematics
Meert, A., Vikram, V. & Bernardi, M. 2015, MNRAS, 446, 3943–3974

44. Systematic effects on the size-luminosity relation: dependence on model fitting and morphology
Bernardi, M., Meert, A., Vikram, V., Huertas-Company, M., Mei, S., Shankar, F. & Sheth, R.K. 2014, MNRAS, 443, 874–897

45. Modelling mass distribution in elliptical galaxies: mass profiles and their correlation with velocity dispersion profiles
Chae, K., Bernardi, M. & Kravtsov, Andrey V. 2014, MNRAS, 437, 3670–3687

46. The massive end of the luminosity and stellar mass functions: Dependence on the fit to the light profile
Bernardi, M., Meert, A., Sheth, R.K., Vikram, V., Huertas-Company, M., Mei, S. & Shankar, F. 2013, MNRAS, 436, 697–704

47. Simulations of single and two-component galaxy decompositions for spectroscopically selected galaxies from the Sloan Digital Sky Survey
Meert, A., Vikram, V. & Bernardi, M. 2013, MNRAS, 433, 1344–1361

48. No Evidence for a Dependence of the Mass-Size Relation of Early-type Galaxies on Environment in the Local Universe
Huertas-Company, M., Shankar, F., Mei, S., Bernardi, M., Aguerri, J.A.L., Meert, A. & Vikram, V. 2013, ApJ, 779, 29–38

49. Size Evolution of Spheroids in a Hierarchical Universe
Shankar, F., Marulli, F., Bernardi, M., Mei, S., Meert, A. & Vikram, V. 2013, MNRAS, 428, 109–128

50. Semi-empirical catalog of early-type galaxy-halo systems: dark matter density profiles, halo contraction and dark matter annihilation strength
51. Plane fundamentals of fundamental planes: Analytics and algorithms
Sheth, R. K. & Bernardi, M. 2012, MNRAS, 422, 1825–1834

52. Black Holes in Pseudobulges: demography and models
Shankar, F., Marulli, F., Bernardi, M., Mathur, F. & Bournaud, F. 2012, A&A, 540, 23–31

53. Evidence of major dry mergers at $M_\ast > 2 \times 10^{11} M_\odot$ from curvature in early-type galaxy scaling relations?
Bernardi, M., Roche, N., Shankar, F. & Sheth, R. K. 2011, MNRAS, 412, L6–L10

54. Curvature in the color-magnitude relation but not in color-$\sigma$: Major dry mergers at $M_\ast > 2 \times 10^{11} M_\odot$?
Bernardi, M., Roche, N., Shankar, F. & Sheth, R. K. 2011, MNRAS, 412, 684–704

55. Revisiting the Hubble sequence in the SDSS DR7 spectroscopic sample: a publicly available bayesian automated classification
Huertas-Company, M., Aguerri, J. A. L, Bernardi, M., Mei, S. & Sánchez Almeida, J. 2011, A&A, 525, A157 (1–13)

56. The inner structure of very massive elliptical galaxies: implications for the inside-out formation mechanism of $z \sim 2$ galaxies
Tiret, O., Salucci, P., Bernardi, M., Maraston, C. & Pforr, J. 2011, MNRAS, 411, 1435–1444

57. Cosmic Evolution of Size and Velocity Dispersion for Early-type Galaxies
Fan, L., Lapi, A., Bressan, A., Bernardi, M., De Zotti, G. & Danese, L. 2010, ApJ, 718, 1460–1475

58. Colour Gradients and Colour-Magnitude Relation of Brightest Cluster Galaxies compared to E/S0 Galaxies: Implications for their formation
Roche, N., Bernardi, M. & Hyde, J. B. 2010, MNRAS, 407, 1231–1244

59. Further constraining galaxy evolution models through the Size Function of SDSS Early-type galaxies
Shankar, F., Marulli, F., Bernardi, M., Boylan-Kolchin, M., Dai, X. & Khochfar, S., 2010, MNRAS, 405, 948–960

60. The role of environment on the formation of early-type galaxies
Rogers, B., Ferreras, I., Pasquali, A., Bernardi, M., Lahav, O. & Kaviraj, S. 2010, MNRAS, 405, 329–339

61. Galaxy luminosities, stellar masses, sizes, velocity dispersions as a function of morphological type
Bernardi, M., Shankar, F., Hyde, J. B., Mei, S., Marulli, F. & Sheth, R. K. 2010, MNRAS, 404, 2087–2122
62. Sizes and ages of SDSS ellipticals: Comparison with hierarchical galaxy formation models
Shankar, F., Marulli, F., Bernardi, M., Dai, X., Hyde, J. B. & Sheth, R. K. 2010, MNRAS, 403, 117–128

63. The age dependence of the size-stellar mass relation and some implications
Shankar, F. & Bernardi, M., 2009, MNRAS, 396, L76–L80

64. Spectral-based k-corrections and implications for the colour-magnitude relation of E/S0s and its evolution
Roche, N., Bernardi, M. & Hyde, J. B. 2009, MNRAS, 398, 1549–1562

65. Evolution in the structural properties of early-type brightest cluster galaxies at small lookback time and dependence on the environment
Bernardi, M. 2009, MNRAS, 395, 1491–1506

66. Curvature in the scaling relations of early-type galaxies
Hyde, J. B. & Bernardi, M. 2009, MNRAS, 394, 1978–1990

67. The luminosity and stellar mass Fundamental Plane of early-type galaxies
Hyde, J. B. & Bernardi, M. 2009, MNRAS, 396, 1171–1185

68. A search for the most massive galaxies. II. Structure, environment and formation
Bernardi, M., Hyde, J. B., Fritz, A., Sheth, R. K., Gebhardt, K. & Nichol, R. C. 2008, MNRAS, 391, 1191–1209

69. A search for the most massive galaxies. III. Surface brightness profiles and structural properties from HST images
Hyde, J. B., Bernardi, M., Fritz, A., Sheth, R. K. & Nichol 2008, MNRAS, 391, 1559–1576

70. The evolution of the $M_{BH} - \sigma$ relation inferred from the age distribution of local early-type galaxies and AGN evolution
Shankar, F., Bernardi, M. & Haiman, Z. 2008, ApJ, 694, 867–878

71. In search of the largest velocity dispersion galaxies using the Hobby-Eberly Telescope
Salviander, S., Shields, G. A., Gebhardt K., Bernardi, M. & Hyde, J. B. 2008, ApJ, 687, 828–834

72. Decoding the spectra of SDSS early-type galaxies: new indicators of age and recent star formation
Rogers, B., Ferreras, I., Lahav, O., Bernardi, M., Sugata, K., & Sukyoung K. Y. 2007, MNRAS, 382, 750–760

73. The $\sigma - L$ correlation in Nearby Early-Type Galaxies
Bernardi, M. 2007, AJ, 133, 1954–1961

74. Selection bias in the $M_* - \sigma$ and $M_* - L$ correlations and its consequences
Bernardi, M., Sheth, R. K., Tundo, E. & Hyde, J. B. 2007, ApJ, 660, 267–275
75. On the inconsistency between the black hole mass function inferred from $M_\bullet - \sigma$ and $M_\bullet - L$ correlations
   Tundo, E., Bernardi, M., Hyde, J. B., Sheth, R. K., & Pizzella, A. 2007, ApJ, 663, 53–60

76. The ages, metallicities and star formation histories of SDSS early-type galaxies
   Jimenez, R., Bernardi, M., Haiman, Z., Panter, B., & Heavens, A. F. 2007, ApJ, 669, 947–951

77. Inferring the cosmic evolution of quasars from the age distribution of local early-type galaxies
   Haiman, Z., Jimenez, R., & Bernardi, M. 2007, ApJ, 658, 721–730

78. The luminosities, sizes and velocity dispersions of Brightest Cluster Galaxies: Implications for formation history
   Bernardi, M., Hyde, J. B., Sheth, R. K., Miller, C. J., & Nichol, R. C. 2007, AJ, 133, 1741–1755

79. A search for the most massive galaxies: Double Trouble?
   Bernardi, M., Sheth, R. K., Nichol, R. C. et al. 2006, AJ, 131, 2018–2034

80. Evolution and environment of early-type galaxies
   Bernardi, M., Nichol, R. C., Sheth, R. K., Miller, C. J. & Brinkmann, J. 2006, AJ, 131, 1288–1317

81. Colors, magnitudes and velocity dispersions in early-type galaxies: Implications for galaxy ages and metallicities
   Bernardi, M., Sheth, R. K., Nichol, R. C., Schneider, D. P. & Brinkmann, J. 2005, AJ, 129, 61–72

82. Redshift-Distance Survey of Early-Type Galaxies: Spectroscopic Data
   Wegner, G., Bernardi, M., Willmer, C. N. A., da Costa, L. N., Alonso, M. V., Pellegrini, P. S., & Maia, M. A. G. 2004, AJ, 126, 2268–2280

83. The quasar epoch and the stellar ages of early-type galaxies
   Cattaneo, A. & Bernardi, M. 2003, MNRAS, 344, 45–52

84. The velocity dispersion function of early-type galaxies
   Sheth, R. K., Bernardi, M., Schechter, P. et al. 2003, ApJ, 594, 225–231

85. Early-type galaxies in the SDSS. I. The sample
   Bernardi, M., Sheth, R. K., Annis J. et al. 2003, AJ, 125, 1817–1848

86. Early-type galaxies in the SDSS. II. Correlations between observables
   Bernardi, M., Sheth, R. K., Annis J. et al. 2003, AJ, 125, 1849–1865

87. Early-type galaxies in the SDSS. III. The Fundamental Plane
   Bernardi, M., Sheth, R. K., Annis J. et al. 2003, AJ, 125, 1866–1881

88. Early-type galaxies in the SDSS. IV. Colors and chemical evolution
   Bernardi, M., Sheth, R. K., Annis J. et al. 2003, AJ, 125, 1882–1896
89. Redshift-distance Survey of Early-type Galaxies: Circular Aperture Photometry
   Alonso, M. V., Bernardi, M., da Costa, L. N., Wegner, G., Willmer, C. N. A.,
   Pellegrini, P. S., & Maia, M. A. G. 2003, AJ, 125, 2307–2324

90. A feature at $z \sim 3.2$ in the evolution of the Lyα forest optical depth
    Bernardi, M., Sheth, R. K., Subbarao M. et al. 2003, AJ, 125, 32–52

91. Detection of He II reionization in the SDSS quasar sample
    Theuns, T., Bernardi, M., Frieman, J., Hewett, P., Schaye, J., Sheth, R. K., &
    Subbarao M. 2002, ApJ Letters, 574, 111–114

92. Redshift-distance Survey of Early-type Galaxies. I. The ENEARc Cluster Sample
    Bernardi, M., Alonso, M. V., da Costa, L. N., Willmer, C. N. A., Wegner, G.,
    Pellegrini, P. S., Rité, C., & Maia, M. A. G. 2002, AJ, 123, 2990–3017

93. Redshift-distance Survey of Early-type Galaxies. II. The Dn-$\sigma$ Relation
    Bernardi, M., Alonso, M. V., da Costa, L. N., Willmer, C. N. A., Wegner, G.,
    Pellegrini, P. S., Rité, C., & Maia, M. A. G. 2002, AJ, 123, 2159–2182

94. Sloan Digital Sky Survey: Early Data Release
    Stoughton, C., Lupton, R. H., Bernardi, M., et al. 2002, AJ, 123, 485–548

95. Large-scale power spectrum and structures from the ENEAR galaxy peculiar velocity
    catalogue
    Zaroubi, S., Bernardi, M., da Costa, L. N., Hoffman, Y., Alonso, M. V., Wegner, G.,
    Willmer, C. N. A., & Pellegrini, P. S. 2001, MNRAS, 326, 375–386

96. Toward an Alternative Way of Looking at Elliptical Galaxies: Case Studies for NGC
    4649 and NGC 7097
    De Bruyne, V., Dejonghe, H., Pizzella, A., Bernardi, M., and Zeilinger, W. W. 2001,
    ApJ, 546, 903–915

97. Comparison of the ENEAR peculiar velocities with the PSCz gravity field
    Nusser, A., da Costa, L. N., Branchini, E., Bernardi, M., Alonso, M. V., Wegner,
    G., Willmer, C. N. A., & Pellegrini, P. S. 2001, MNRAS, 320, 21–24

98. Redshift-Distance Survey of Early-Type Galaxies. I. Sample Selection, Properties, and
    Completeness
    da Costa, L. N., Bernardi, M., Alonso, M. V., Wegner, G., Willmer, C. N. A.,
    Pellegrini, P. S., Rité, C., & Maia, M. A. G. 2000, AJ, 120, 95–109

99. ENEAR Redshift-Distance Survey: Cosmological Constraints
    Borgani, S., Bernardi, M., da Costa, L. N., Wegner, G., Alonso, M. V., Willmer,
    C. N. A., Pellegrini, P. S., & Maia, M. A. G. 2000, ApJ Letters, 537, 1–4

100. Redshift-Distance Survey of Early-Type Galaxies: Dipole of the Velocity Field
    da Costa, L. N., Bernardi, M., Alonso, M. V., Wegner, G., Willmer, C. N. A.,
    Pellegrini, P. S., Maia, M. A. G., & Zaroubi, S. 2000, ApJ Letters, 537, 81–84

101. Cluster versus Field Elliptical Galaxies and Clues on Their Formation
     Bernardi, M., Renzini, A., da Costa, L. N., Wegner, G., Alonso, M. V., Pellegrini,
     P. S., Rité, C., & Willmer, C. N. A. 1998, ApJ Letters, 508, 143–146
CONTRIBUTED:

102. The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data
Abdurro’uf, A. C. et al. 2022, ApJS, 259, 35 (39 pp)

103. The Sixteenth Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra
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104. The Hubble Sequence at $z_{sim} 0$ in the IllustrisTNG simulation with deep learning
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113. A catalog of visual-like morphologies in the 5 CANDELS fields using deep-learning
Huertas-Company, M., Gravet, R., Cabrera-Vives, G., Perez-Gonzalez, P. G., Kartaltepe, J., Barro, G., Bernardi, M., Mei, S., Shankar, F., Dimauro, P., Bell, E. F., Kocevski, Koo, D., Lotz, J., Faber, S. & McIntosh, D. 2015, ApJS, 221, 23 – 49

114. The morphologies of massive galaxies from $z \sim 3$ - witnessing the 2 channels of bulge growth
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Shankar, F., Mei, S., Huertas-Company, M., Moreno, J., Fontanot, F., Monaco, P., Bernardi, M., Cattaneo, A., Sheth, R. K., Licitra, R., Delaye, L. & Raichoor, A. 2014, MNRAS, 439, 3189–3212

119. The Multi-Object, Fiber-Fed Spectrographs for SDSS and the Baryon Oscillation Spectroscopic Survey
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(Abazajian, K. et al.) 2009, ApJS, 182, 543–558

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(Adelman-McCarthy, J. K. et al.) 2008, ApJS, 175, 297–313
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124. The C4 Clustering Algorithm: Clusters of Galaxies in the Sloan Digital Sky Survey, Miller, C. J., Nichol, R. C., Reichart, D. et al. 2005, AJ, 130, 968–1001

125. The Third Data Release of the Sloan Digital Sky Survey, The SDSS collaboration (Abazajian, J. K. et al.) 2005, AJ, 129, 1755–1759

126. Sloan Digital Sky Survey Imaging of Low Galactic Latitude Fields: Technical Summary and Data Release, Finkbeiner, D. P., Padmanabhan N., Schlegel D. J., et al. 2004, AJ, 128, 2577–2592

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135. H$_\delta$-Selected Galaxies in the Sloan Digital Sky Survey I: The Catalog, Goto, T., Nichol, R. C., Miller, C. J., Bernardi, M. et al. 2003, PASJ, 55, 771–787

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139. Galaxy Star-Formation as a Function of Environment in the Early Data Release of the Sloan Digital Sky Survey, Gomez, P., Nichol, R., Miller, C. et al. 2003, ApJ, 584, 210–227

140. Stellar Masses and Star Formation Histories for 80,000 Galaxies from the Sloan Digital Sky Survey, G. Kauffmann, T. M. Heckman, S. D. M. White et al. 2003, MNRAS, 341, 33–53

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143. Composite Luminosity Functions of the Sloan Digital Sky Survey “Cut and Enhance” Galaxy Cluster Catalog, T. Goto, S. Okamura, T. A. Mckay et al. 2002, PASJ, 54, 515–525

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146. Spectroscopic Target Selection for the Sloan Digital Sky Survey: The Luminous Red Galaxy Sample, Eisenstein, D. J., Annis, J., Gunn, J. E. et al. 2001, AJ, 122, 2267–2280

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RESOURCES: GRANTS & AWARDS

NSF AST/1816330 – US$ 418,218 (2018 – 2022)
“Deep-Learning for Galaxy Morphology in the Big Data Era”
PI: M. Bernardi

NASA ADP/NNX09AD02G – US$ 421,258 (2009 – 2014)
“2MASSDSX: A homogeneous catalog of galaxies from the NIR to the NUV”
PI: M. Bernardi

NSF AST/0908242 – US$ 210,856 (2009 – 2012)
“Evidence for the re-ionization of He II from the evolution of the Ly-α forest optical depth in the SDSS?”
PI: M. Bernardi

HST-GO-10488.01-A – US$ 92,317 (2005 – 2008)
“The Most Massive Galaxies in the Universe: Color-Gradients and Texture”
PI: M. Bernardi

NASA ADP/LTSA/NNG06GC19G – US$ 369,212 (2005–2009)
“A Search for and Analysis of the Most Massive Galaxies”
PI: M. Bernardi

HST-GO-10199.06-A – US$ 113,148 / US$ 100,148 to P.I. (2005 – 2007)
“The Most Massive Galaxies in the Universe: Double Trouble?”
PI: M. Bernardi, CoI: R. K. Sheth, K. Gebhardt, R. C. Nichol

SDSS: Spectroscopic pipeline Builder
European Southern Observatory: Studentship (Oct 1996 - Apr 1999)

THESIS ADVISOR & POST-GRADUATE SCHOLAR SPONSOR:

Graduate Students:

J. Robe (UPenn), June 2023 – present
Funding source: NSF Graduate Research Fellowship

J.-L. Fischer (UPenn), September 2014 – December 2018
Funding source: NASA ADP/NNX09AD02G + UPenn funds
Thesis title: Measuring Photometric Properties of SDSS and MaNGA galaxies
Present position: Data Analyst, Comcast

A. Meert (UPenn), January 2010 – May 2015
Funding source: NSF AST/0908242 + NASA ADP/NNX09AD02G
Thesis title: Bulges and Disks in the Nearby Universe: Applications to Evolution and Formation of Galaxies
Present position: Data Engineer, Swift Capital
E. Tundo (U. Padova / UPenn), May 2006 – March 2010
Funding source: INAF funds
Thesis title: Supermassive Black Holes: a spectroscopic and photometric study on the connection with their host galaxies
Present position: Staff, INAF Florence

J. Hyde (UPenn), September 2005 – May 2009
Funding source: HST-GO-10199.06-A + HST-GO-10488.01-A + NASA ADP/LTSA/NNG06GC19G
Thesis title: Galaxy Image Processing and Morphological Modeling: Applications to Understanding Galaxy Formation and Evolution
Present position: Quantitative Researcher - Global Quantitative Strategies, Citadel LLC

H. Kang (Dartmouth College / Upenn), June 2005 – October 2010
Funding source: Prof. G. Wegner funds
Thesis title: Cosmic Velocity Flows in the Large Scale with SDSS DR7 Early Type Galaxies
Present position: Data Scientist, KAIST Korea

Postdoctoral Scholars:

B. Margalef-Bentabol, October 2019 – September 2021
Funding source: NSF AST/1816330

J. Ferrero, January 2019 – December 2020
Funding source: UPenn funds

H. Dominguez-Sanchez, September 2016 – August 2019
Funding source: UPenn funds + NSF AST/1816330

V. Vikram (in collaboration with Prof. Jain), September 2010 – August 2014
Funding source: DES-UPenn funds
Present position: KICP Associate fellow, Argonne National Laboratory

N. Roche, September 2007 – June 2009
Funding source: NASA ADP/LTSA/NNG06GC19G
Present position: Staff, CAUP Portugal

A. Fritz, September 2006 – August 2007
Funding source: NASA ADP/LTSA/NNG06GC19G
Present position: Data Scientist, OmegaLambdaTec GmbH Germany

LONG TERM VISITORS:

M. Huertas-Company, September 2016 – August 2017
Assistant Professor, Paris Observatory/University Paris Diderot

K.-H. Chae, January 2017 – December 2017
Professor, Sejong University Korea
COURSES DEVELOPED AND TAUGHT:

2023A ASTR001001 Survey of the Universe 60 students
2022C ASTR211001 Intro Astrophysics I 34 students
2022A ASTR001001 Survey of the Universe 50 students
2021C ASTR533001 Galaxies: Structure, Dynamics and Formation 8 students
2021A ASTR001001 Survey of the Universe 77 students
2020C ASTR001001 Survey of the Universe 57 students
2020A ASTR001001 Survey of the Universe 77 students
2019C ASTR533001 Galaxies: Structure, Dynamics and Formation 4 students
2019A ASTR001002 Survey of the Universe 52 students
2018C ASTR211001 Intro Astrophysics I 33 students
2018A ASTR001001 Survey of the Universe 68 students
2017C ASTR533001 Galaxies: Structure, Dynamics and Formation 10 students
2017A ASTR001001 Survey of the Universe 81 students
2016C ASTR211001 Intro Astrophysics I 31 students
2016A ASTR001001 Survey of the Universe 83 students
2015C ASTR533001 Galaxies: Structure, Dynamics and Formation 4 students
2015A ASTR001001 Survey of the Universe 79 students
2014C ASTR211001 Intro Astrophysics I 12 students
2014A ASTR001001 Survey of the Universe 77 students
2013C ASTR533001 Galaxies: Structure, Dynamics and Formation 5 students
2013A ASTR001001 Survey of the Universe 78 students
2012C ASTR001001 Survey of the Universe 63 students
2011C ASTR001001 Survey of the Universe 26 students
2010C ASTR001001 Survey of the Universe 88 students
2010C ASTR001002 Survey of the Universe 69 students
2010A ASTR533001 Galaxies: Structure, Dynamics and Formation 5 students
2009 ASTR001001 Survey of the Universe 82 students
2009C ASTR001002 Survey of the Universe 82 students
2008C ASTR533001 Galaxies: Structure, Dynamics and Formation 6 students
2008A ASTR001002 Survey of the Universe 72 students
2007A ASTR001003 Survey of the Universe 21 students
2006C ASTR001002 Survey of the Universe 63 students
2006C PREC130001 Exploring the Stars 71 students
2006 Galaxy formation and evolution, Padova (15 hrs)
2006A PHYS295-301 3 × 1.5 hrs lecture 8 students
2006A ASTR001001 Survey of the Universe 54 students
2005 ASTR001001 Survey of the Universe 54 students
2005C PREC130001 Exploring the Stars 71 students
2005A ASTR001001 Survey of the Universe 69 students

COMMITTEES & ADMINISTRATIVE ASSIGNMENTS:
| Year        | Activity                                                                 |
|------------|--------------------------------------------------------------------------|
| 2023       | Member of PhD Thesis committee for R. Sarmiento (IA Canarias)            |
| 2023       | Member of PhD Thesis committee for B. Dogruel (U. Swinburne)             |
| 2023 – 2024| Mentor of A. Germer                                                       |
| 2022 – 2023| Mentor of A. Kundu                                                        |
| 2022 – 2023| Mentor of M. Young                                                       |
| 2022 – present| Mentoring committee of M. Madhavacheril                                |
| 2017 – present| Mentoring committee of B. Zhen                                           |
| 2021 – present| Member of PhD Thesis committee for H. Qu (UPenn)                        |
| 2020 – 2022| Member of PhD Thesis committee for F. Nikakhtar (UPenn)                  |
| 2021       | Referee of PhD Thesis of C. Cannarozzo (U. Bologna)                     |
| 2020 – 2021| Member of PhD Thesis committee for C. Cannarozzo (U. Bologna)            |
| 2019 – 2020| Member of PhD Thesis committee for D. Varghese (UPenn)                   |
| 2019 – 2020| Member of Committee for Promotion of C. Blake                           |
| 2021       | Physics 501 lecture                                                      |
| 2018       | Physics 501 lecture                                                      |
| 2018 – 2019| Colloquium Committee                                                    |
| 2017 – 2018| Teaching mentor of postdoc K. Eckert                                    |
| 2017 – 2018| Astro Faculty Search Committee                                          |
| 2017 – 2018| Chair Rittenhouse Lecture Committee                                    |
| 2017 – 2018| Member of PhD Thesis committee for D. Brout (UPenn)                     |
| 2016 – 2017| Colloquium Committee                                                    |
| 2015 – 2016| Chair Colloquium Committee                                              |
| 2015       | Member of PhD Thesis committee for J. Fischer (UPenn)                   |
| 2015       | Supervisor of PhD Thesis of A. Meert (UPenn)                            |
| 2014 – 2015| Chair Colloquium Committee                                              |
| 2014 – 2015| Member of Committee for Promotion of A. Lidz                            |
| 2014 – 2015| Member of Graduate Admissions Committee                                 |
| 2014 – 2015| Member of PhD Thesis committee for Z. J. Qi (UPenn)                     |
| 2013 – 2014| Member of PhD Thesis committee for K. Douglass (Drexel)                 |
| 2013       | Colloquium Committee                                                    |
| 2012       | Examination of PhD thesis of C. Margoulas (University of Melbourne)     |
| 2011       | Member of PhD Thesis committee for A. Cardullo (Padova University)      |
| 2011       | Member of PhD Thesis committee for C. Grava (Padova University)         |
| 2011       | Member of the oral presentation committee for Z. J. Qi (UPenn)          |
| 2011       | Member of PhD Thesis committee for C. Moorman (Drexel)                  |
| 2010 – 2011| Astro Faculty Search Committee                                          |
| 2010       | Supervisor of PhD Thesis of E. Tundo (Padova/UPenn)                     |
| 2009 – 2010| Astro Faculty Search Committee                                          |
| 2009       | Chair of PhD Thesis committee for M. Caler (UPenn)                     |
| 2009       | Supervisor of PhD Thesis of J. Hyde (UPenn)                            |
| 2008 – 2009| Astro Faculty Search Committee                                          |
| 2008       | Colloquium Committee                                                    |
| 2007       | Undergrad Students Committee                                            |
| 2007       | Liaison with SAS computing about sys admin needs                        |
| 2006 – 2010| Member of PhD Thesis committee for J. Parejko (Drexel)                  |
| 2006       | Graduate Students Committee                                             |
| 2006 – 2007| Astro Faculty Search Committee                                          |
| 2005       | Member of PhD Thesis committee for P. Allen (UPenn)                    |