

David W. Hogg

<http://cosmo.nyu.edu/hogg/>

Professional Preparation:

Massachusetts Institute of Technology	Physics	SB 1992
California Institute of Technology	Physics	PhD 1998
Institute for Advanced Study	Astrophysics	1997–2001

Appointments:

Assistant Professor	Department of Physics	New York University, 2001–Present
Long-term member	Astrophysics	Institute for Advanced Study, 1997–2001
Lecturer (part-time)	Department of Physics	Princeton University, 1998–2001

Five Publications Closely Related to Proposed Project:

- Carlberg, R. G. *et al*, 2000, Caltech Faint Galaxy Redshift Survey. XI. The merger rate to redshift 1 from kinematic pairs, *Astrophys. J. Lett.* **532** L1–L4.
- Hogg D. W. *et al*, 2003, The overdensities of galaxy environments as a function of luminosity and color, *Astrophys. J. Lett.* **585** L5–L9.
- Hogg D. W. *et al*, 2004, The dependence on environment of the color–magnitude relation of galaxies, *Astrophys. J. Lett.* **601** L29–L32.
- Lupton R., Blanton M. R., Fekete G., Hogg D. W., O’Mullane W., Szalay A., & Wherry N., Preparing red-green-blue images from CCD data, 2004, *Pubs. Astron. Soc. Pac.* **116** 133–137.
- Quintero, A. D. *et al*, 2004, Selection and photometric properties of K+A galaxies, *Astrophys. J.* **602** 190–199

Five Other Significant Publications:

- Hogg D. W., Finkbeiner D. P., Schlegel D. J. & Gunn J. E., 2001, A photometricity and extinction monitor at the Apache Point Observatory, *Astron. J.* **122** 2129–2138.
- Blanton M. *et al*, 2003, An Overview of the broadband optical properties of galaxies with redshifts $0.0 < z < 0.2$, *Astrophys. J.* **594** 186–207.
- Hogg, D. W., Eisenstein, D. J., Blanton, M. R., Bahcall, N. A., Brinkmann, J., Gunn, J. E., & Schneider, D. P., 2005, Cosmic homogeneity demonstrated with luminous red galaxies, *Astrophys. J.* **624** 54–58.
- Willman, B. *et al*, A new Milky Way dwarf galaxy in Ursa Major, *Astrophys. J. Lett.* **626** L85–L88.
- Eisenstein, D. J. *et al*, 2005, Detection of the baryon acoustic peak in the large-scale correlation function of SDSS Luminous Red Galaxies, *Astrophys. J.* in press ([arXiv:astro-ph/0501171](https://arxiv.org/abs/astro-ph/0501171)).

Synergistic Activities:

- Advised NYU undergraduates Dimitri Apostol, Malcolm Britton, Alejandro Quintero, Otar Sepper, and Nicholas Wherry in original astrophysics research (2002–present)

- Winner of undergraduate teaching awards at the California Institute of Technology (June 1996) and at Princeton University (February 2000). duties
- Awarded NYU “Golden Dozen” Teaching Award (May 2003)
- Gave public lectures on galaxy properties and galaxy evolution at NYU and the American Museum of Natural History (spring 2003)
- Led a full-day discussion of cosmology and galaxy astrophysics with New York City area high-school science teachers as part of an NYU Steinhardt School of Education teacher education program (Fall 2001)
- Technical consultant for the movie *Contact* (Warner Bros, 1996).
- Leader of Photometric Calibration Task Force investigating and helping to solve photometric calibration issues for the Sloan Digital Sky Survey
- Panel Member, Time Allocation Committee, National Optical Astronomy Observatory, 2000–2002
- Panel Chair, Time Allocation Committee, *Spitzer Space Telescope*, 2005
- Creator of widely-used code and documentation for computing cosmological distance measures (<http://xxx.lanl.gov/abs/astro-ph/9905116>)

Collaborators Within the Past 48 Months:

Andreas Berlind (New York University), Michael Blanton (New York University), Daniel Eisenstein (University of Arizona), Douglas Finkbeiner (Princeton University), Robert Lupton (Princeton University), Hans-Walter Rix (Max-Planck Institute), David Schlegel (Lawrence Berkeley Laboratory), Chris Stoughton (Fermi National Accelerator Laboratory), Michael Strauss (Princeton University), Alex Szalay (Johns Hopkins University), Max Tegmark (University of Pennsylvania), Christy Tremonti (Arizona), Beth Willman (New York University)

Co-Editors Within the Past 24 Months:

none

Graduate and Postdoctoral Advisors:

John N. Bahcall (Institute for Advanced Study)
 Roger Blandford (California Institute of Technology)

Graduate Students Advised & Postdoctoral Scholars Sponsored Over the Past Five Years:

Morad Masjedi (current NYU graduate student)
 Andreas Berlind (current NYU postdoc)
 Michael Blanton (current NYU postdoc)
 Beth Willman (current NYU postdoc)