Ryan Scranton

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Personal

Born: November 27, 1974
Lamar, CO, USA

Education

Massachusetts Institute of Technology *1993—1997*
Cambridge, MA

- BSc, Physics, June 1997
- thesis: modeling gravitational lens in CL0024+1654

University of Chicago *1997—2002*
Chicago, IL

- PhD, Astronomy & Astrophysics, summer 2002 (expected)
- thesis: expected constraints on halo model parameters from angular correlations in the SDSS

Research

Research Assistant, University of Chicago *2001—2002*

- Cosmology & large scale structure, angular correlations, modern data analysis techniques, semi-analytic mass halo models, SDSS data QA and systematic errors, weak lensing magnification bias, strong lensing of QSOs in SDSS
- Advisor: Scott Dodelson

Teaching

Teaching Assistant, University of Chicago *1997—1999, 2002*

- Physical Sciences 118/119/120, Undergraduate Astronomy Sequence, 1997—1999
- Astronomy 242, Cosmology, 2002

Technical Support

Systems Administrator, Fermilab National Laboratory *2000*
Batavia, IL

- Theoretical Astrophysics Group

Publications *1998—2002*

1. Carlip, S., **Scranton, R.** (1998)
Remarks on the "New Redshift Interpretation"
Mod. Phys. Letters A, **14**, 71 (astro-ph/9808021)

2. **Scranton, R.**, Dodelson S. (2000)
Non-Linear Effects on the Angular Correlation Function
submitted to MNRAS (astro-ph/0003034)

3. Richards, G.T., Weinstein, M.A., Schneider, D.P., Fan, X., Strauss, M.A., Vanden Berk, D.E., Annis, J., Burles, S., Laubacher, E.M.,York, D.G., Frieman, J.A., Johnston, D., **Scranton, R.**,Gunn, J.E., Ivezic, Z., Nichol, R. C., Budavári, T., Csabai, I., Szalay, A.S., Connolly, A.J., Szokoly, G.P., Bahcall, N.A., Benítez, N., Brinkmann, J., Brunner, R., Fukugita, M., Hall, P.B., Hennessy, G. S., Knapp, G. R., Kunszt, P.Z., Lamb, D. Q., Munn, J.A., Newberg, H.J., Stoughton, C. (2001)
Photometric Redshifts of Quasars
AJ,**122**, 1151 (astro-ph/0106038)

4. **Scranton, R.**, Johnston, D., Dodelson, S., Frieman, J.A., Connolly, A., Eisenstein, D.J., Gunn, J.E., Hui, L., Jain, B., Kent, S., Loveday, J., Narayanan, V.K., Nichol, R.C., O'Connell, L., Scoccimarro, R., Sheth, R.K., Stebbins, A., Strauss, M.A., Szalay, A.S., Szapudi, I., Tegmark, M., Vogeley, M.S., Zehavi, I., et al, for the SDSS Collaboration (2001)
Analysis of Systematic Effects and Statistical Uncertainties in Angular Clustering of Galaxies from Early SDSS Data
submitted to ApJ (astro-ph/0107416)

5. Connolly, A., **Scranton, R.**, Johnston, D., Dodelson, S., Eisenstein, D.J., Frieman, J.A., Gunn, J.E., Hui, L., Jain, B., Kent, S., Loveday, J., Narayanan, V.K., Nichol, R.C., O'Connell, L., Scoccimarro, R., Sheth, R.K., Stebbins, A., Strauss, M.A., Szalay, A.S., Szapudi, I., Tegmark, M., Vogeley, M.S., Zehavi, I., et al, for the SDSS Collaboration (2001)
The Angular Correlation Function of Galaxies from Early SDSS Data
submitted to ApJ (astro-ph/0107417)

6. Tegmark, M., Dodelson, S., Eisenstein, D.J., Narayanan, V.K., Scoccimarro, R., **Scranton, R.**, Strauss, M.A., Connolly, A., Frieman, J.A, Gunn, J.E., Hui, L., Jain, B., Johnston, D., Kent, S., Loveday, J., Nichol, R.C., O'Connell, L., Sheth, R.K., Stebbins, A., Szalay, A.S., Szapudi, I., Vogeley, M.S., Zehavi, I., et al, for the SDSS Collaboration (2001)
The Angular Power Spectrum of Galaxies from Early SDSS Data
submitted to ApJ (astro-ph/0107418)

7. Szalay, A.S., Jain, B., Matsubara, T., **Scranton, R.**, Vogeley, M.S., Connolly, A., Dodelson, S., Eisenstein, D.J., Frieman, J.A., Gunn, J.E., Hui, L., Johnston, D., Kent,

S., Kerscher, M., Loveday, J., Meiksin, A., Narayanan, V.K., Nichol, R.C., O'Connell, L., Pope, A., Scoccimarro, R., Sheth, R.K., Stebbins, A., Strauss, M.A., Szapudi, I., Tegmark, M., Zehavi, I., et al, for the SDSS Collaboration (2001)
KL Estimation of the Power Spectrum Parameters from the Angular Distribution of Galaxies in Early SDSS Data
submitted to ApJ (astro-ph/0107419)

8. Dodelson, S., Narayanan, V.K., Tegmark, M., **Scranton, R.**, Budavari, T., Connolly, A., Csabai, I., Eisenstein, D.J., Frieman, J.A., Gunn, J.E., Hui, L., Jain, B., Johnston, D., Kent, S., Loveday, J., Nichol, R.C., O'Connell, L., Scoccimarro, R., Sheth, R.K., Stebbins, A., Strauss, M.A., Szalay, A.S., Szapudi, I., Vogeley, M.S., Zehavi, I., et al, for the SDSS Collaboration (2001)
The 3D Power Spectrum from Angular Clustering of Galaxies in Early SDSS Data
submitted to ApJ (astro-ph/0107421)

9. **Scranton, R.** (2001)
Modeling Galaxy Clustering by Color
submitted to MNRAS (astro-ph/0108266)

Presentations

1999—2002

Talks

SDSS Collaboration Meeting (2000)
"Early Galaxy Angular Correlations"
University of Washington
Seattle, WA

196th Meeting of the American Astronomical Society (2000)
"Preliminary $w(\theta)$ Measurements From the SDSS"
Rochester, NY

Wopat Lecture Series (2000)
"Tom Wopat's Guide to Power Spectra"
University of Chicago
Chicago, IL

NSF SDSS Site Review (2000)
"Large Scale Structure From the SDSS"
Fermi National Accelerator Laboratory
Batavia, IL

Wopat Lecture Series (2001)
"Learning QSO Magnification Bias the Tom Wopat Way"
University of Chicago
Chicago, IL

Cosmology Lunch (2001)
"One Last Early Look at Angular Clustering in the SDSS"
University of Chicago
Chicago, IL

Where's the Matter? Tracing Dark and Bright Matter with the New Generation of Large Scale Surveys (2001)
"Prospects for Constraining Mass-Halo Models with the SDSS"
Laboratoire d'Astrophysique de Marseille
Marseille, France

SF01 Cosmology Summer Workshop (2001)
"Systematic Effects in the Photometric SDSS EDR"
St. Johns College
Santa Fe, NM

References

Scott Dodelson (dodelson@canis.fnal.gov)
Daniel Eisenstein (eisenste@cmb.as.arizona.edu)
Michael S. Turner (mturner@oddjob.uchicago.edu)