

## Publication List

I am an active member of the Dark Energy Survey (DES) Collaboration (2005-present), and a former contributor to the Collider Detector at Fermilab (CDF) collaboration (2003). These collaborations produce long, alphabetized author lists. The publications where I have made leading or significant contributions have been highlighted for clarity.

### Conference Proceedings

**Nord, B.**, Buckley-Geer, E. J., Lin, H., Diehl, H. T., & Gaitsch, H. *Warped Universe: Analysis of Strong Lens Candidates from Early Dark Energy Survey Data*. in *American Astronomical Society (AAS #225) Meeting Abstracts, 225, January 2015*.

Schlegel, D. J., Blum, R. D., Castander, F. J., et al. *The Dark Energy Spectroscopic Instrument (DESI): The NOAO DECam Legacy Imaging Survey and DESI Target Selection*. in *American Astronomical Society (AAS #225) Meeting Abstracts, 225, January 2015*

Moreland, B., McKay, T., & **Nord, B.** *Network Methods Of Centering For The Maxbcg Clusters*. in *American Astronomical Society, AAS (#218), Bulletin of the American Astronomical Society, 43, May 2011*.

**Nord, B.**, Evrard, A.E., Rasia, E., Stanek, R. *The Many Faces of Galaxy Clusters: Mock Observations of Cluster Populations in Multiple Wavelengths*. in *American Astronomical Society, AAS (#212), Bulletin of the American Astronomical Society, 40, May 2008*.

**Nord, B.**, & Evrard, A. E. *Selection Effects in Galaxy Cluster Surveys: What Do We Learn from Observed Scaling Relations?* in *American Astronomical Society, AAS (#209), Bulletin of the American Astronomical Society, 38, January 2007*.

Stanek, R., Evrard, A., Boehringer, H., Schuecker, P. & **Nord, B.** *The X-Ray Luminosity-Mass Relation for Local Clusters of Galaxies*. in *AAS/AAPT Joint Meeting, American Astronomical Society (#209), Bulletin of the American Astronomical Society, 38, January 2007*.

**Nord, B.**, Stanek, B., Rasia, E., et al. *Influence of Covariance and Selection on Cluster X-ray Scaling Relations*. in *Proceedings of X-ray Surveys, Evolution of Accretion, Star-Formation and the Large Scale Structure, July 2007*.

### Primary Contributor

**Nord, B.**, Buckley-Geer, E., Lin, H., Diehl, H., Helsby, J., Kuropatkin, N., Amara, A., et al. *Observation and Confirmation of Six Strong Lensing Systems in The Dark Energy Survey Science Verification Data*. Accepted to ApJ with revisions. (2015) arXiv:1512.03062. **Corresponding Author; DES Collaboration**.

**Nord, B.**, Amara, A., Réfrégier, A., Gamper, L., Gamper, L., Hambrecht, B., Chang, C., Forero-Romero, J. E., et al. *SPOKES: an End-to-End Simulation Facility for Spectroscopic Cosmological Surveys*. Accepted for publication in the Journal of Astronomy & Computing. (2016) arXiv:1602.01480. **Corresponding Author**.

Simon, J. D., Drlica-Wagner, A., Li, T. S., **Nord, B.**, Geha, M., Bechtol, K., Balbinot, E., Buckley-Geer, E., Lin, H., Marshall, J., Santiago, B., Strigari, L., Wang, M., et al. *Stellar Kinematics and Metallicities in the Ultra-Faint Dwarf Galaxy Reticulum II*. ApJ 808 (2015) 95, arXiv:1504.02889. **DES Collaboration**.

Saunders, W., Smedley, S., Gillingham, P., Forero-Romero, J. E., Jouvel, S., **Nord, B.** *Target allocation yields for massively multiplexed spectroscopic surveys with fibers*. Proc.SPIE Int. Soc. Opt. Eng. 9150 (2014) 915023, arXiv:1406.1787.

Connolly, A., Habib, S., Szalay, A., Borrill, J., Fuller, G., Gnedin, N., Heitmann, K., Jacobs, D., Lamb, D., Mezzacappa, T., Messer, B., Myers, S., **Nord, B.**, Nugent, P., O'Shea, B., et al. *Snowmass Computing Frontier: Computing for the Cosmic Frontier, Astrophysics, and Cosmology*. (2013) arXiv:1311.2841.

Rykoff, E. S., Rozo, E., Busha, M. T., Cunha, C. E., Finoguenov, A., Evrard, A., Hao, J., Koester, B. P., Leauthaud, A., **Nord, B.**, Pierre, M., Reddick, R., Sadibekova, T., Sheldon, E. S., Wechsler, R. H. *redMaPPer. I. Algorithm and SDSS DR8 Catalog*. Apj 785 (2014) 33, arXiv:1303.3562.

Lincoln, D., **Nord, B.** *The Expanding Universe: Dark Energy.* The Physics Teacher 52 (2014) 337.

Bieszadinski, T., McMahon, J., Miller, C., **Nord, B.** Shaw, L. *Impact of Systematics on SZ-Optical Scaling Relations.* ApJ 757 (2011) 6, arXiv:1201.1282.

Rozo, E., Rykoff, E., Koester, B., **Nord, B.** Wu, H., Evrard, A. E., Wechsler, R. *Extrinsic source of scatter in the richness-mass relation of galaxy clusters.* ApJ 740 (2011) 53, arXiv:1104.2090.

**Nord, B.**, Stanek, R., Rasia, E., Evrard, E., 2008. *Effects of selection and covariance on X-ray scaling relations of galaxy clusters.* MNRAS 383 (2008) L10, arXiv:0706.2189. **Corresponding Author.**

**Secondary Contributor**

Heavens, A. F., Seikel, M., **Nord, B.** Aich, M., Bouffanais, Y., Bassett, B. A., Hobson, M. P. *Generalized Fisher matrices.* MNRAS 445 (2014) 1687, arXiv:1404.2854.

Rhodes, J., Allen, S., Benson, B. A., Chang, T., de Putter, R., Dodelson, S., Dore, O., Honscheid, K., Linder, E., Menard, B., Newman, J., **Nord, B.** Rozo, E., Rykoff, E., Vallinotto, A., Weinberg, D. *Exploiting cross correlations and joint analyses. (A Snowmass Report)* (2013) arXiv:1309.5388.

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Stanek, R., Evrard, A.E., Bohringer, H., Schuecker, P., **Nord, B.** *The X-ray luminosity-mass relation for local clusters of galaxies.* APJ 648 (2006) 956, arXiv:astro-ph/0602324.

Ohl, R.G., Connelly, J.A., Boyle, R.F., Derro, R.J., Fitzgerald, D.L., Greenhouse, M.A., Madison, T.J., Mentzell, J.E., **Nord, B.** Sparr, L.M., Hylan, J.E., Knute, R., MacKenty, J.W. *Integration, testing and performance of the Infrared Multi-Object Spectrometer.* Proc.SPIE Int. Soc. Opt. Eng. 5492 (2004) 1114.

**Co-Author DES Collaboration**

**DES Collaboration** *CMB lensing tomography with the DES Science Verification galaxies.* MNRAS 456 (2016) 3213, arXiv:1507.05551.

**DES Collaboration** *Galaxy clustering, photometric redshifts and diagnosis of systematics in the DES Science Verification data.* MNRAS 455 (2016) 4301, arXiv:1507.05360.

**DES Collaboration** *Observation of Two New L4 Neptune Trojans in the Dark Energy Survey Supernova Fields* AJ 151 (2016) 39, arXiv:1507.05177.

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**DES Collaboration** *Constraints on the richness-mass relation and the optical-SZE positional offset distribution for SZE-selected clusters.* MNRAS 454 (2015) 2305, arXiv:1506.07814.

**DES Collaboration** *Eight Ultra-faint Galaxy Candidates Discovered in Year Two of the Dark Energy Survey.* ApJ 813 (2015) 109, arXiv:1508.03622.

**DES Collaboration** *The Dark Energy Camera.* AJ 150 (2015) 150, arXiv:1504.02900.

**DES Collaboration** *Automated Transient Identification in the Dark Energy Survey.* AJ 150 (2015) 82, arXiv:1504.02936.

**DES Collaboration** *Search for Gamma-Ray Emission from DES Dwarf Spheroidal Galaxy Candidates with Fermi-LAT Data.* ApJ Lett. 809 (2015) L4, arXiv:1503.02632.

**DES Collaboration** *Wide-field lensing mass maps from Dark Energy Survey science verification data: Methodology and detailed analysis.* Phys. Rev. D 92 (2015) 022006, arXiv:1504.03002.

**DES Collaboration** *Eight New Milky Way Companions Discovered in First-year Dark Energy Survey Data.* ApJ 807 (2015) 50, arXiv:1503.02584.

**DES Collaboration** *Mass and galaxy distributions of four massive galaxy clusters from Dark Energy Survey Science Verification data.* MNRAS 449 (2015) 2219, arXiv:1405.4285.

**DES Collaboration** *The Dark Energy Survey and operations: Year 1.* Proc.SPIE Int. Soc. Opt. Eng. 9149 (2014) 91490V.

**DES Collaboration** *PreCam: A Precursor Observational Campaign for Calibration of the Dark Energy Survey.* PASP 125 (2013) 409, arXiv:1208.0865.

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**DES Collaboration** *The Dark Energy Camera (DECam).* Proc.SPIE Int. Soc. Opt. Eng. 7014 (2008) 70140E.

**Co-Author CDF Collaboration**

T. Akimoto, and the **CDF Collaboration** *The CDF RunIIb silicon detector: design, preproduction, and performance.* Nucl. Instr. and Meth. A 556 (2006) 459-481.

T. Akimoto, and the **CDF Collaboration** *CDF run IIb silicon detector: Electrical performance and deadtime-less operation.* IEEE Trans.Nucl.Sci. 51 (2004) 987-993.

K. Hara, and the **CDF Collaboration** *Sensors for the CDF Run2b silicon detector.* IEEE Trans.Nucl.Sci. 51 (2004) 1546-1554.

R. Lu, and the **CDF Collaboration** *CDF Run IIb silicon: Stave design and testing.* IEEE Trans.Nucl.Sci. 51 (2004) 2209-2214.

S. Behari, and the **CDF Collaboration** *CDF Run IIb Silicon Vertex Detector DAQ Upgrade.* IEEE Trans.Nucl.Sci. 51 (2004) 3047-3054.

Bacchetta, and the **CDF Collaboration** *CDF Run IIb silicon vertex detector DAQ upgrade.* FERMILAB-PUB-03-376-E.

**Authored Books**

Lorenzon, W.L., **Nord, B.** Percha, B.L., Introductory Mechanics Laboratory Manual. Michigan: Hayden/MacNeill, 2007.