

ANDRÉS N. SALCEDO

McPherson Laboratory 4029 \diamond 140 West 18th Avenue \diamond Columbus OH, 43210-1173
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EDUCATION

The Ohio State University, Columbus Ohio *August 2015 - Present*
Ph.D. in Astronomy (expected 2021)
Advisor: David Weinberg

Lehigh University, Bethlehem Pennsylvania *August 2011 - May 2015*
B.S. in Physics, B.S. in Mathematics

FELLOWSHIPS AND HONORS

Ohio State University Graduate Enrichment Fellowship *2015-present*
Department of Energy Computational Science Graduate Fellow *2016 - 2020*
C.C. Hsiung Award, Lehigh University Mathematics Department *2015*
Lehigh University Eckardt Scholar *2012-2015*
Academic Merit Award, Lehigh University *2011-2015*

TALKS AND POSTERS

DESI Group Meeting, *Cosmology with Cluster-Cross Correlations and Topics in Assembly Bias*, Lawrence Berkeley Laboratory *September 2020*

Tuesday Astrophysics and COsmology Seminar, *Cosmology with Cluster-Cross Correlations and Topics in Assembly Bias*, University of Arizona *September 2020*

Cosmology X Data Science Group Meeting, *Cosmology with Cluster-Cross Correlations and Constraining Galaxy Assembly Bias in SDSS*, Center for Computational Astrophysics, Flatiron Institute *August 2020*

2020 Department of Energy Computational Science Graduate Fellowship
Annual Program Review, *Cosmology With Stacked-Cluster Weak Lensing and Cluster-Galaxy Cross-Correlations* *July 2020*

Department of Energy Computational Science Graduate Fellowship
Annual Program Review Poster, Washington D.C. *July 2017,2018,2019*

Halo and Galaxy Assembly Bias - from Theory to Observation, *Neighbor Bias in Halo Clustering and Cosmological Forecasting with Cluster-Cross Correlations*, Shanghai Jiao-Tong University *June 2019*

SUGAR-RUSH Conference, *Secondary and Neighbor Bias in Halo Clustering*, Shanghai Jiao-Tong University *June 2018*

OSU-CCAPP Seminar, *Secondary and Neighbor Bias in Halo Clustering*, The Ohio State University *June 2018*

AAS Poster, *Assembly Bias of Dark Matter Halos in LasDamas* *January 2015*

AAS Poster, *Dark Matter Halo Clustering in the LasDamas Simulations* *January 2014*

PUBLICATIONS

Salcedo, A. N., Wibking, B. D., Weinberg, D. H., Wu, H.-Y., Ferrer, D., Eisenstein, D., Pinto, P. (2019). *Cosmology with Stacked Cluster Weak Lensing and Cluster-Galaxy Cross-Correlations*. Monthly Notices of the Royal Astronomical Society. doi: 10.1093/mnras/stz2963

Wu, H.-Y., Weinberg, D. H., **Salcedo, A. N.**, Wibking, B. D., Zu, Y. (2019). *Covariance matrices for galaxy cluster weak lensing: from virial regime to uncorrelated large-scale structure*. Monthly Notices of the Royal Astronomical Society. doi: 10.1093/mnras/stz2617

Wibking, B. D., Weinberg, D. H., **Salcedo, A. N.**, Wu, H., Singh, S., Rodriguez-Torres, S., . . . Eisenstein, D. J. (2019). Cosmology with galaxygalaxy lensing on non-perturbative scales: Emulation method and application to BOSS LOWZ. *Monthly Notices of the Royal Astronomical Society*, 492(2), 2872-2896. doi:10.1093/mnras/stz3423

Wibking, B. D., **Salcedo, A. N.**, Weinberg, D. H., Garrison, L. H., Ferrer, D., Tinker, J., . . . Pinto, P. (2018). Emulating galaxy clustering and galaxy-galaxy lensing into the deeply non-linear regime: Methodology, information, and forecasts. *Monthly Notices of the Royal Astronomical Society*, 484(1), 989-1006. doi:10.1093/mnras/sty2258

Salcedo, A. N., Maller, A. H., Berlind, A. A., Sinha, M., McBride, C. K., Behroozi, P. S., . . . Weinberg, D. H. (2018). Spatial clustering of dark matter haloes: Secondary bias, neighbour bias, and the influence of massive neighbours on halo properties. *Monthly Notices of the Royal Astronomical Society*, 475(4), 4411-4423. doi:10.1093/mnras/sty109

SERVICE EXPERIENCE

OSU Astronomy Society Roof Night	<i>August 2015</i>
Parent and Family Weekend Planetarium Shows	<i>October 2015</i>
Friends of Ohio State Astronomy and Astrophysics Event	<i>October 2018</i>
Founder and Coordinator of Graduate Order of Magnitude Club	<i>Fall 2017-Spring 2018</i>
Graduate Member of Admissions Committee Interviews	<i>February-March 2019</i>
First Year Graduate Student Mentor	<i>Fall 2019-Spring 2020</i>
Coordinator of Graduate Klondike Colloquium Series	<i>Summer 2019-2020</i>
Research Co-Mentor (with H. Y. Wu) of Chenxiao Zeng	<i>Spring 2020 - Present</i>
MNRAS Referee	