ANDRÉS N. SALCEDO

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ACADEMIC APPOINTMENTS

Postdoctoral Research Associate   *February 2022 - Present*
Department of Astronomy and Steward Observatory, University of Arizona

Postdoctoral Fellow   *August 2021 - February 2022*
Department of Astronomy, The Ohio State University

EDUCATION

The Ohio State University, Columbus Ohio   *August 2015 - June 2021*
Ph.D. in Astronomy
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	*2015-2021*
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

The 22nd Guo Shoujing Meeting of the Chinese Astronomical Society,
Elucidating galaxy assembly bias in SDSS, Sun Yat-sen University, Zhuhai   *November 2020*
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., Weinberg, D. H., Wu, H.-Y., amp; Wibking, B. D. (2022). Exploiting non-linear scales in galaxygalaxy lensing and galaxy clustering: A forecast for the Dark Energy Survey. Monthly Notices of the Royal Astronomical Society, 510(4), 53765391. https://doi.org/10.1093/mnras/stab3793

Shin, T., Jain B., Adikhari, S., Baxter, E.J., Chang, C., Pandey, S., **Salcedo, A. N.**, ... Zhang, Y. (2021). The mass and galaxy distribution around SZ-selected clusters. Monthly Notices of the Royal Astronomical Society, 507(4), 5758-5779. doi:10.1093/mnras/stab2505

Wu, H., Weinberg, D. H., **Salcedo, A. N.**, Wibking, B. D. (2021). Cosmology with Galaxy Cluster Weak Lensing: Statistical Limits and Experimental Design. The Astrophysical Journal, 910(1), 28. doi:10.3847/1538-4357/abdc23

Salcedo, A. N., Zu, Y., Zhang, Y., Wang, H., Yang, X., Wu, Y., . . . Weinberg, D. H. (2020). Elucidating Galaxy Assembly Bias in SDSS. arXiv Preprints, 1-19. Retrieved from https://arxiv.org/abs/2010.04176

Wibking, B. D., Weinberg, D. H., **Salcedo, A. N.**, Wu, H-Y.., Singh, S., Rodrguez-Torres, S., . . . Eisenstein, D. J. (2019). Cosmology with galaxy-galaxy 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

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., **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

Graduate Research Co-Mentor (with H. Y. Wu) of Chenxiao Zeng	*Spring 2020 - Present*
First Year Graduate Student Mentor	*Fall 2019-Spring 2020*
Coordinator of Graduate Klondike Colloquium Series	*Summer 2019-2020*
Graduate Member of Admissions Committee Interviews	*February-March 2019*
Founder and Coordinator of Graduate Order of Magnitude Club	*Fall 2017-Spring 2018*
Friends of Ohio State Astronomy and Astrophysics Event	*October 2018*
Parent and Family Weekend Planetarium Shows	*October 2015*
OSU Astronomy Society Roof Night	*August 2015*
Lehigh University Grader MATH208 (Complex Variables)	*August 2014 - May 2015*
MNRAS Referee	
ApJ Referee	

REFERENCES

Prof. David H. Weinberg
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School of Physics and Astronomy
Shanghai Jiao Tong University
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Prof. Chris Hirata
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Prof. Hao-Yi Wu
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