

Benjamin Wibking

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Born: June 16, 1991
Nationality: USA

Previous position

PhD student, Department of Astronomy, Ohio State University

Areas of specialization

Interstellar Medium and Star Formation Feedback
Cosmology – Large-Scale Structure and Weak Lensing

Education

2013 BA in Physics and Mathematics, Vanderbilt University
2019 PhD in Astronomy, Ohio State University

Grants, honors & awards

2016–2019 National Science Foundation Graduate Research Fellowship

Publications & talks

FIRST-AUTHOR PUBLICATIONS

2019 Benjamin D. Wibking, David H. Weinberg, Andrés N. Salcedo, Hao-Yi Wu, Sukhdeep Singh, Sergio Rodríguez-Torres, Lehman H. Garrison, and Daniel J. Eisenstein. Cosmology with galaxy-galaxy lensing on non-perturbative scales: Emulation method and application to BOSS LOWZ. *MNRAS*, in press, Dec 2019 (*citations: 5*)

2018 Benjamin D. Wibking, Andrés N. Salcedo, David H. Weinberg, Lehman H. Garrison, Douglas Ferrer, Jeremy Tinker, Daniel Eisenstein, Marc Metchnik, and Philip Pinto. Emulating galaxy clustering and galaxy-galaxy lensing into the deeply non-linear regime: methodology, information, and forecasts. *MNRAS*, 484(1):989–1006, Mar 2019 (*citations: 19*)

- 2018 B. D. Wibking, T. A. Thompson, and M. R. Krumholz. Radiation pressure in galactic discs: stability, turbulence, and winds in the single-scattering limit. *MNRAS*, 477:4665–4684, July 2018 (*citations: 7*)

OTHER PUBLICATIONS

- 2018 M. Sinha, A. A. Berlind, C. K. McBride, R. Scoccimarro, J. A. Pacione, and B. D. Wibking. Towards accurate modelling of galaxy clustering on small scales: testing the standard Λ CDM + halo model. *MNRAS*, 478:1042–1064, July 2018 (*citations: 19*)
- 2019 Hao-Yi Wu, David H. Weinberg, Andrés N. Salcedo, Benjamin D. Wibking, and Ying Zu. Covariance matrices for galaxy cluster weak lensing: from virial regime to uncorrelated large-scale structure. *MNRAS*, 490(2):2606–2626, Dec 2019 (*citations: 1*)
- 2019 Andrés N. Salcedo, Benjamin D. Wibking, David H. Weinberg, Hao-Yi Wu, Douglas Ferrer, Daniel Eisenstein, and Philip Pinto. Cosmology with Stacked Cluster Weak Lensing and Cluster-Galaxy Cross-Correlations. *MNRAS*, page 2563, Oct 2019 (*citations: 1*)

INVITED TALKS

- 2017 University of Pittsburgh Astronomy Seminar (Sept. 22, 2017; Pittsburgh, PA).

OTHER TALKS AND POSTER PRESENTATIONS

- 2013 221st AAS Meeting *poster* (Jan. 2013; Long Beach, CA)
- 2014 Friends of Assembly Bias Workshop *talk* (Nov. 2014; Columbus, OH).
- 2017 KITP Santa Barbara Galaxy-Halo Connection *poster* (May 2017; Santa Barbara, CA)
- 2017 TeV Particle Astrophysics 2017 *talk* (Aug. 2017; Columbus, OH)
- 2018 Studying the Universe with Galaxy Surveys Revealing the Unlimited in Shanghai *talk* (June 2018; Shanghai, China)
- 2019 Emulation of Galaxy Clustering Workshop @ OSU CCAPP *talk* (May 2019; Columbus, OH)

CONFERENCES ORGANIZED

- 2019 Emulation of Galaxy Clustering Workshop @ OSU CCAPP *co-organizer* (May 2019; Columbus, OH) (<https://ccapp.osu.edu/workshops/emulation-galaxy-clustering>)

Service to the profession

Referee, The Astrophysical Journal