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## EDUCATION

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<b>University of California, Berkeley</b> (Berkeley, CA)	<b>2007–2013</b>
Ph.D. in Physics	September 2013
• Dissertation: <i>Probing large-scale structure with intrinsic alignments and galaxy clustering</i>	
M.A. in Physics	May 2009
<b>University of Cambridge</b> (Cambridge, UK)	<b>2006–2007</b>
M.A.St. in Mathematics, <i>with Merit</i> (Part III of the Mathematics Tripos)	June 2007
• Department of Applied Mathematics and Theoretical Physics	
• Trinity College	
<b>Harvard University</b> (Cambridge, MA)	<b>2002–2006</b>
A.B. in Physics and Astronomy & Astrophysics ( <i>summa cum laude</i> )	June 2006

## EMPLOYMENT

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<b>Assistant Professor of Physics</b> , Northeastern University (Boston, MA)	<b>2020–present</b>
<b>SNSF Ambizione Fellow</b> , Laboratory of Astrophysics, École Polytechnique Fédérale de Lausanne (Switzerland)	<b>2016–2020</b>
<b>CCAPP Postdoctoral Fellow</b> , Center for Cosmology and AstroParticle Physics, Ohio State University (Columbus, OH)	<b>2013–2016</b>
<b>Graduate Student Researcher</b> , University of California, Berkeley and Lawrence Berkeley National Lab (Berkeley, CA)	<b>2007–2013</b>
<b>Graduate Student Instructor</b> , University of California, Berkeley (Berkeley, CA)	<b>2007, 2010, 2012</b>
<b>Undergraduate Researcher</b> , Harvard University (Cambridge, MA)	<b>2005–2006</b>

## AWARDS & FELLOWSHIPS

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- NSF CAREER Award (2025); selected as a Simonyi-NSF Scholar
- Builder, LSST Dark Energy Science Collaboration (2022)
- Builder, Dark Energy Survey (2022)
- Affiliate, NSF Institute for Artificial Intelligence and Fundamental Interactions (2024–present)
- RCSA Scialog Fellow for LSST (2024–present)
- Ambizione Fellowship, Swiss National Science Foundation (2016–2019)
- CCAPP Fellowship, Ohio State University (2013–2016)
- National Science Foundation Graduate Research Fellowship (2007–2010)
- Fiske Scholarship at Trinity College, Cambridge (Harvard-Cambridge Scholar) (2006–2007)
- Jack Sanderson Prize for top undergraduate in physics (2006)
- Leo Goldberg Prize for top junior thesis in astronomy (2005)

## RESEARCH LEADERSHIP

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- Deputy Analysis Coordinator of LSST-DESC (2025–present)
- Convener of LSST-DESC Modeling and Combined Probes working group (2017–2021)
- Co-lead of DES Modeling and Analysis Team (2022–present)
- Lead of LSST-DESC Blind Analysis Team (2022–2025)
- LSST-DESC Collaboration Council (2018–2022)
- Co-chair of LSST-DESC Meetings Committee (2022–present)
- Co-chair of LSST-DESC Spokesperson Sustainability Committee (2023–2024)
- Co-lead developer of **FAST-PT** software package, including pipeline integration (2016–present)

## MAJOR EXTERNAL GRANTS

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- **CAREER: Exploring the dark sector with state-of-the-art galaxy surveys**  
NSF (2025-2030); Role: PI
- **Research in High-Energy Physics at Northeastern University**  
DOE (2025-2029); Role: Lead PI in multi-PI award
- **Galaxy Intrinsic Alignments for Cosmology with the Roman Space Telescope**  
NASA (2023-2025); Role: PI
- **Galaxy intrinsic alignments: A new window into structure in the Universe**  
NSF (2022-2025); Role: PI
- **Maximizing Cosmological Science with the Roman High Latitude Imaging Survey**  
NASA (2024-2028); Role: Co-I
- **Maximizing Science Exploitation of Simulated Cosmological Data Across Surveys**  
NASA, OpenUniverse (2025-2029); Role: Co-I
- **Commissioning robust analysis tools for LSST DESC**  
DOE (2023-2025); Role: PI
- **Accurate Cosmology with Observations of Galaxies**  
Swiss National Science Foundation, Ambizione Fellowship (2017-2020); Role: PI

## TEACHING & ADVISING

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### Teaching

#### *Courses Taught at Northeastern University*

- *PHYS 5117*: Advanced Astrophysics Topics (Graduate and undergraduate lecture course)
- *PHYS 5118*: General Relativity and Cosmology (Graduate and undergraduate lecture course)
- *PHYS 1165*: Physics 2 (Undergraduate lecture course)
- *PHYS 7210*: Introduction to Research in Physics (Graduate seminar)

#### *Prior Teaching Experience*

- EPFL: Assistant instructor for *Astrophysics IV*: Observational Cosmology
- University of California, Berkeley: Graduate student instructor for Cosmology and Relativistic Astrophysics; Graduate Computational Cosmology; Honors Electricity, Magnetism, and Thermodynamics

## Research Advising

### *Supervision of Postdoctoral Researchers and Graduate Students*

#### Northeastern

- Dr. Jiachuan Xu, postdoctoral researcher
- Dr. Simon Samuroff, postdoctoral researcher
- Dr. Jacqueline McCleary, Future Faculty Fellow
- Nicholas Van Alfen, Ph.D. advisor
- Sneh Pandya, Ph.D. co-advisor
- Zepei Yang, Ph.D. advisor
- Yuanyuan Yang, M.S. and Ph.D. co-advisor
- Alyssa Cordero, Ph.D. project advisor
- Yunhao (Claude) Zhu, Ph.D. project advisor
- Shivam Bhasin, Ph.D. project advisor

#### Other Institutions

- Claire Lamman (Harvard), Project co-advisor
- Sara Aliqolizadehsafari (EPFL), Specialization project, M.S. thesis advisor
- Paul Martens (EPFL), M.S. project advisor
- Olivier Kauffmann (EPFL), M.S. thesis advisor
- Denise Schmitz (Caltech), Ph.D. project co-advisor
- Joe McEwan (Ohio State), Ph.D. project co-advisor
- Xiao Fang (Ohio State), Ph.D. project co-advisor

### *Supervision of Undergraduate Students*

- I have supervised six undergraduate research projects through Northeastern's Co-op program and other research programs. I have also mentored eight students through the AstroFUNR program I founded and continue to run.

## HIGHLIGHTS OF PROFESSIONAL SERVICE

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- Founder and coordinator of AstroFUNR research and mentoring program, in collaboration with Northeastern (NU) COS Dean's Undergraduate Research Scholars
- Co-founder and coordinator of Enabling Cosmology with Homogenized Observations of Intrinsic Alignments (echoIA)
- Organizer and/or scientific organizing committee for numerous conferences workshops, including through echoIA
- NU Physics Coordinator of Introduction to Research course
- NU Physics Colloquium committee
- NU Physics representative to College of Science Council
- NU Curriculum development for Astrophysics concentration/minor
- Reviewer for NSF and DOE grants and fellowships
- Frequent reviewer for several major journals (multiple articles per year)
- Organization and co-authoring of community planning documents, including Astro2020 and Snowmass2021
- FirstGen Ahead program mentorship
- Coordinator of Summer Research Scholars, Harvard-Cambridge Scholarship

**Refereed journal articles**

For brevity, the list below omits over 40 collaboration papers on which I made contributions warranting authorship but had less significant involvement. A more complete publication list is also available on [google scholar](#).

*First author or primary involvement*

- Lamman, C., **Blazek, J.**, Eisenstein, D. *Optimal intrinsic alignment estimators in the presence of redshift-space distortions*. Submitted. arXiv:2504.15164.
- Pandya, S., Yang, Y., Van Alfen, N., **Blazek, J.**, Walters, R. *IAEmu: Learning Galaxy Intrinsic Alignment Correlations*. Submitted. arXiv:2504.05235.
- Van Alfen, N., Campbell, D., Hearin, A., **Blazek, J.** *Halotools: A New Release Adding Intrinsic Alignments to Halo Based Methods*. 2025, JOSS, 10(107), 7421.
- Pandya, S., Yang, Y., Van Alfen, N., **Blazek, J.**, Walters, R. *Learning Galaxy Intrinsic Alignment Correlations*. DMLR Workshop at ICLR 2024. arXiv:2404.13702.
- Samuroff, S., Campos, A., Porredon, A., **Blazek, J.** *Joint constraints from cosmic shear, galaxy-galaxy lensing and galaxy clustering: internal tension as an indicator of intrinsic alignment modelling error*. 2024, OJA, 7, 40.
- Van Alfen, N., Campbell, D., **Blazek, J.**, Leonard, C.D., Lanusse, F., Hearin, A., Mandelbaum, R. (The Rubin Dark Energy Science Collaboration). *An Empirical Model For Intrinsic Alignments: Insights From Cosmological Simulations*. 2024, OJA, 7, 45.
- Pandya, S., Patel, P., Franc, O., **Blazek, J.** *E(2) Equivariant Neural Networks for Robust Galaxy Morphology Classification*. Machine Learning and the Physical Sciences Workshop at NeurIPS 2023. arXiv:2311.01500.
- Zhou, C., Tong, A., Troxel, M. A., **Blazek, J.** *et al.* (The DES Collaboration). *The Intrinsic Alignment of Red Galaxies in DES Y1 redMaPPer Galaxy Clusters*. 2023, MNRAS, 526, 323.
- Samuroff, S., Mandelbaum, R., **Blazek, J.** *et al.* (The DES Collaboration). *The Dark Energy Survey Year 3 and eBOSS: constraining galaxy intrinsic alignments across luminosity and colour space*. 2023, MNRAS, 524, 2195.
- The DES Collaboration (*Key Project*). *Dark Energy Survey Year 3 Results: Constraints on extensions to  $\Lambda$ CDM with weak lensing and galaxy clustering*. 2023, PRD, 107, 083504.
- Hoffmann, K., Secco, L., **Blazek, J.**, Crocce, M. *et al.* *Modeling Intrinsic Galaxy Alignment in the MICE Simulation*. 2022, PRD, 106, 123510.
- Prat, J., **Blazek, J.**, Sánchez, C. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 Results: High-precision measurement and modeling of galaxy-galaxy lensing*. 2022, PRD, 105, 083528.
- Secco, L., Samuroff, S., Krause, E., Jain, B., **Blazek, J.** *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 Results: Cosmology from Cosmic Shear and Robustness to Modeling Uncertainty*. 2022, PRD, 105, 023515.
- Krause, E., Fang, X., Pandey, S., Secco, L., Alves, O., Huang, H., **Blazek, J.** *et al.* (The DES Collaboration) *Dark Energy Survey Year 3 Results: Multi-Probe Modeling Strategy and Validation*. Submitted. arXiv:2105.13548.
- The DES Collaboration (*Key Project*). *Dark Energy Survey Year 3 Results: Cosmological Constraints from Galaxy Clustering and Weak Lensing*. 2022, PRD, 105, 023520.
- Pandey, S., Krause, E., DeRose, J., MacCrann, N., Jain, B., Crocce, M., **Blazek, J.** *et al.* (The DES Collaboration) *Dark Energy Survey Year 3 Results: Constraints on cosmological parameters and galaxy bias models from galaxy clustering and galaxy-galaxy lensing using the redMaGiC sample*. 2022, PRD, 106, 043520.

- MacCrann, N., **Blazek, J.**, Jain, B., Krause, E. *Controlling and leveraging small-scale information in tomographic galaxy-galaxy lensing*. 2020, MNRAS, 491, 5498.
- **Blazek, J.**, MacCrann, N., Troxel, M., Fang, X. *Beyond linear galaxy alignments*. 2019, PRD, 100, 103506.
- Samuroff, S., **Blazek, J.** *et al.* (The DES Collaboration). *Dark Energy Survey Year 1 Results: Constraints on Intrinsic Alignments and their Colour Dependence from Galaxy Clustering and Weak Lensing*. 2019, MNRAS, 489, 5453.
- Schmitz, D., Hirata, C., **Blazek, J.**, Krause, E. *Time evolution of intrinsic alignments of galaxies*. 2018, JCAP, 7, 30.
- The DES Collaboration (*Key Project*). *Dark Energy Survey Year 1 Results: Cosmological Constraints from Galaxy Clustering and Weak Lensing*. 2018, PRD, 98, 043526.
- Troxel, M., MacCrann, N., Zuntz, J., Eifler, T., Krause, E., Dodelson, S., Gruen, D., **Blazek, J.** *et al.* (The DES Collaboration). *Dark Energy Survey Year 1 Results: Cosmological Constraints from Cosmic Shear*. 2018, PRD, 98, 043528.
- Krause, E., Eifler, T., Zuntz, J., Friedrich, O., Troxel, M., Dodelson, S., **Blazek, J.** *et al.* (The DES Collaboration). *Dark Energy Survey Year 1 Results: Multi-Probe Methodology and Simulated Likelihood Analyses*. Submitted to PRD. arXiv:1706.09359.
- Fang, X., **Blazek, J.**, McEwen, J., Hirata, C. *FAST-PT II: an algorithm to calculate convolution integrals of general tensor quantities in cosmological perturbation theory*. 2017, JCAP, 2, 30.
- McEwen, J., Fang, X., Hirata, C., **Blazek, J.** *FAST-PT: a novel algorithm to calculate convolution integrals in cosmological perturbation theory*. 2016, JCAP, 9, 15.
- **Blazek, J.**, McEwen, J., Hirata, C. *Streaming velocities and the baryon-acoustic oscillation scale*. 2016, PRL, 116, 121303 (Editor's Suggestion).
- Krause, E., Eifler, T., **Blazek, J.** *The impact of intrinsic alignment on current and future cosmic shear surveys*. 2016, MNRAS, 456, 207.
- **Blazek, J.**, Vlah, Z., Seljak, U. *Tidal alignment of galaxies*. 2015, JCAP, 8, 15.
- **Blazek, J.**, Seljak, U., Vlah, Z., Okumura, T. *Geometric and dynamic distortions in anisotropic galaxy clustering*. 2014, JCAP, 4, 1.
- **Blazek, J.**, Mandelbaum, R., Seljak, U., Nakajima, R. *Separating intrinsic alignment and galaxy-galaxy lensing*. 2012, JCAP, 5, 41.
- **Blazek, J.**, McQuinn, M., Seljak, U. *Testing the tidal alignment model of galaxy intrinsic alignment*. 2011, JCAP, 5, 10.
- **Blazek, J.**, Gaensler, B., Chatterjee, S., van der Swaluw, E., Camilo, F., Stappers, B. *The Duck Redux: An Improved Proper-Motion Upper Limit for the Pulsar B1757-24 near the Supernova Remnant G5.4-1.2*. 2006, ApJ, 652, 1523.

*Substantial contribution, including collaboration papers*

- Harnois-Deraps, J. *et al.* (The Rubin Dark Energy Science Collaboration). *Non-linear infusion of intrinsic alignment and source clustering: impact on non-Gaussian cosmic shear statistics*. Submitted to MNRAS. arXiv:2509.25166.
- Anbajagane, D. *et al.* *The DECADE cosmic shear project V: Constraints on cosmology and astrophysics from 270 million galaxies across 13,000 deg<sup>2</sup> of the sky*. Submitted. arXiv:2509.03582.
- Zacharegkas, G. *et al.* (The DES Collaboration). *Constraining the Stellar-to-Halo Mass Relation with Galaxy Clustering and Weak Lensing from DES Year 3 Data*. Submitted. arXiv:2506.22367.
- The DES Collaboration (*Key Project*). *Dark Energy Survey Year 3 Results: Cosmological Constraints from Cluster Abundances, Weak Lensing, and Galaxy Clustering*. Submitted. arXiv:2503.13632.
- To, C-H. *et al.* (The DES Collaboration). *Dark Energy Survey: Modeling strategy for multiprobe cluster cosmology and validation for the Full Six-year Dataset*. 2025, PRD, 112, 063537.

- Anbajagane, D. *et al.* *The DECADE cosmic shear project IV: cosmological constraints from 107 million galaxies across 5,400 deg<sup>2</sup> of the sky.* Submitted. arXiv:2502.17677.
- McCullough, J. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3: Blue Shear.* Submitted. arXiv:2410.22272.
- Faga, L. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 results: Cosmology from galaxy clustering and galaxy-galaxy lensing in harmonic space.* 2025, MNRAS, 536, 2.
- Gatti, M. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 results: simulation-based cosmological inference with wavelet harmonics, scattering transforms, and moments of weak lensing mass maps I: validation on simulations.* 2024, PRD, 109, 063534.
- Gatti, M., Jeffrey, N., Whiteway, L., Ajani, V., Kacprzak, T., Zürcher, D., Chang, C., Jain, B., **Blazek, J.** *et al.* (The DES Collaboration). *Detection of the significant impact of source clustering on higher-order statistics with DES Year 3 weak gravitational lensing data.* 2024, MNRAS Letters, 527, L115.
- Nicola, A., Hadzhiyska, B., Findlay, N., García-García, C., Alonso, D., Slosar, A., Guo, Z., Kokron, N., Angulo, R., Aviles, A., **Blazek, J.** *et al.* (The LSST-DESC). *Galaxy bias in the era of LSST: perturbative bias expansions.* 2024, JCAP, 2, 15.
- The DES Collaboration and The Kilo-Degree Survey Collaboration. *DES Y3 + KiDS-1000: Consistent cosmology combining cosmic shear surveys.* 2023, OJA, 6, 36.
- Prat, J., Zacharegkas, G., Park, Y., MacCrann, N., Switzer, E. R., Pandey, S., Chang, C., **Blazek, J.** *et al.* (The DES Collaboration). *Non-local contribution from small scales in galaxy-galaxy lensing: comparison of mitigation schemes.* 2023, MNRAS, 522, 412.
- Elvin-Poole, J., MacCrann, N. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 results: Magnification modeling and impact on cosmological constraints from galaxy clustering and galaxy-galaxy lensing.* 2023, MNRAS, 523, 3649.
- Fischbacher, S., Kacprzak, T., **Blazek, J.**, Refregier, A. *Redshift requirements for cosmic shear with intrinsic alignment.* 2023. JCAP, 01, 33.
- The DES and SPT Collaborations (*Key Project*). *Joint analysis of DES Year 3 data and CMB lensing from SPT and Planck III: Combined cosmological constraints.* 2023, PRD, 107, 023531.
- Chen, A. *et al.* (The DES Collaboration). *Constraining the Baryonic Feedback with Cosmic Shear Using the DES Year-3 Small-Scale Measurements.* 2023, MNRAS, 518, 5340.
- Chang, C., Omori, Y., Baxter, E. *et al.* (The DES and SPT Collaborations). *Joint analysis of DES Year 3 data and CMB lensing from SPT and Planck II: Cross-correlation measurements and cosmological constraints.* 2023, PRD, 107, 023530.
- Omori, Y., Baxter, E., Chang, C. *et al.* (The DES and SPT Collaborations). *Joint analysis of DES Year 3 data and CMB lensing from SPT and Planck I: Construction of CMB Lensing Maps and Modeling Choices.* 2023, PRD, 107, 023529.
- Doux, C. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 results: cosmological constraints from the analysis of cosmic shear in harmonic space.* 2022, MNRAS, 515, 1942.
- Goldstein, S., Pandey, S., Slosar, A., **Blazek, J.**, Jain, B. (The LSST Dark Energy Science Collaboration). *Perturbation theory models for LSST-era galaxy clustering: tests with sub-percent mock catalog measurements in Fourier and configuration space.* 2022, PRD, 105, 123518.
- Zacharegkas, G., Chang, C., Prat, J., Pandey, S., Ferrero, I., **Blazek, J.**, Jain, B. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 results: Galaxy-halo connection from galaxy-galaxy lensing.* 2022, MNRAS, 509, 3119.
- DeRose, J. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 results: cosmology from combined galaxy clustering and lensing – validation on cosmological simulations.* 2022, PRD, 105, 123520.
- Porredon, A., Crocce, M., Elvin-Poole, J. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 results: Cosmological constraints from galaxy clustering and galaxy-galaxy lensing using the MagLim lens sample.* 2022, PRD, 106, 103530.

- Amon, A., Gruen, D., Troxel, M. *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 Results: Cosmology from Cosmic Shear and Robustness to Data Calibration*. 2022, PRD, 105, 023514.
- Sánchez, C., Prat, J., Zacharegkas, G., Pandey, S., Baxter, E., Bernstein, G., **Blazek, J.** *et al.* (The DES Collaboration). *Dark Energy Survey Year 3 Results: Exploiting small-scale information with lensing shear ratios*. 2022, PRD, 105, 083529.
- Lee, S., Huff, E. *et al.* (The DES Collaboration). *Probing gravity with the DES-CMASS sample and BOSS spectroscopy*. 2022, MNRAS, 509, 4982.
- Doux, C., Chang, C., Jain, B., **Blazek, J.** *et al.* (The DES Collaboration). *Consistency of cosmic shear analyses in harmonic and real space*. 2021, MNRAS, 503, 3796.
- Samuroff, S., Mandelbaum, R., **Blazek, J.** *Advances in Constraining Intrinsic Alignment Models with Hydrodynamic Simulations*. 2021, MNRAS, 508, 637.
- Pandey, S., Krause, E., Jain, B., MacCrann, N., **Blazek, J.** *et al.* (The DES Collaboration). *Perturbation theory for modeling galaxy bias: validation with simulations of the Dark Energy Survey*. 2020, PRD, 102, 123522.
- Chisari, E. *et al.* (The LSST Dark Energy Science Collaboration). *Core Cosmology Library: Precision Cosmological Predictions for LSST*. 2019, ApJS, 242, 2.
- The DES Collaboration. *Cosmological Constraints from Multiple Probes in the Dark Energy Survey*. 2019, PRL, 122, 171301.
- The DES Collaboration. *Dark Energy Survey Year 1 Results: Constraints on Extended Cosmological Models from Galaxy Clustering and Weak Lensing*. 2019, PRD, 99, 123505.
- The DES and SPT Collaborations. *Dark Energy Survey Year 1 Results: Joint Analysis of Galaxy Clustering, Galaxy Lensing, and CMB Lensing Two-point Functions*. 2019, PRD, 100, 023541.
- Chen, Y., Ho, S., **Blazek, J.**, He, S., Mandelbaum, R., Melchior, P., Singh, S. *Detecting Galaxy-Filament Alignments in the Sloan Digital Sky Survey III*. 2019, MNRAS, 485, 2492.
- MacCrann, N., DeRose, J., Wechsler, R., **Blazek, J.** *et al.* (The DES Collaboration). *DES Y1 Results: Validating cosmological parameter estimation using simulated Dark Energy Surveys*. 2018, MNRAS, 480, 4614.
- Baxter, E., Omori, Y., Chang, C., Giannantonio, T., Kirk, D., Krause, E., **Blazek, J.** *et al.* (The DES Collaboration). *Dark Energy Survey Year 1 Results: Methodology and Projections for Joint Analysis of Galaxy Clustering, Galaxy Lensing, and CMB Lensing Two-point Functions*. 2019, PRD, 99, 3508.
- The DES and SPT Collaborations. *Dark Energy Survey Year 1 Results: A Precise  $H_0$  Measurement from DES Y1, BAO, and  $D/H$  Data*. 2018, MNRAS, 480, 3879.
- Friedrich, O. *et al.* (The DES Collaboration). *Density split statistics: joint model of counts and lensing in cells*. 2018, PRD, 98, 023508.
- Gruen, D. *et al.* (The DES Collaboration). *Density split statistics: Cosmological constraints from counts and lensing in cells in DES Y1 and SDSS*. 2018, PRD, 98, 023507.
- Elvin-Poole, J. *et al.* (The DES Collaboration). *Dark Energy Survey Year 1 Results: Galaxy clustering for combined probes*. 2018, PRD, 98, 042006.
- Prat, J. *et al.* (The DES Collaboration). *Dark Energy Survey Year 1 Results: Galaxy-Galaxy Lensing*. 2018, PRD, 98, 042005.
- Slepian, Z., Eisenstein, D., **Blazek, J.** *et al.* *Constraining the Baryon-Dark Matter Relative Velocity with the Large-Scale 3-Point Correlation Function of the SDSS BOSS DR12 CMASS Galaxies*. 2018, MNRAS, 474, 2109.
- Prat, J., Sanchez, C., Miquel, R., Kwan, J., **Blazek, J.** *et al.* (The Dark Energy Survey Collaboration). *Galaxy bias from galaxy-galaxy lensing in the DES Science Verification Data*. 2018, MNRAS, 473, 1667.

- Alam, S. *et al.* (The BOSS Collaboration). *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological analysis of the DR12 galaxy sample*. 2017, MNRAS, 470, 2617.
- Patton, K., **Blazek, J.**, Honscheid, K., Huff, E., Melchior, P., Ross, A., Suchyta, E. *Cosmological constraints from the convergence 1-point probability distribution*. 2017, MNRAS, 472, 439.
- Kwan, J., Sanchez, C., Clampitt, J., **Blazek, J.** *et al.* (The Dark Energy Survey Collaboration). *Cosmology from large scale galaxy clustering and galaxy-galaxy lensing with Dark Energy Survey Science Verification data*. 2017, MNRAS, 464, 4065.
- Clampitt, J. *et al.* (The DES Collaboration). *Galaxy-Galaxy Lensing in the DES Science Verification Data*. 2017, MNRAS, 465, 4204.
- The Dark Energy Survey Collaboration. *The Dark Energy Survey: more than dark energy - an overview*. 2016, MNRAS, 460, 1270.
- The Dark Energy Survey Collaboration (*Key Project*). *Cosmology from Cosmic Shear with DES Science Verification Data*. 2016, PRD, 94, 022001.

### Selected non-refereed collaboration documents, white papers, and proceedings

- Annis, J., Newman, J., Slosar, A. *et al.* *Snowmass 2021, Report of Cosmic Frontier Chapter 4: Dark Energy and Cosmic Acceleration in the Modern Universe*. arXiv:2209.08049.
- **Blazek, J.** *et al.* *Snowmass2021 Cosmic Frontier White Paper: Enabling Flagship Dark Energy Experiments to Reach their Full Potential*. Snowmass White Paper. arXiv:2204.01992.
- Mao, Y.-Y., Peter, A., Adhikari, S., Bechtol, K., Bird, S., Birrer, S., **Blazek, J.** *et al.* *Snowmass2021: Vera C. Rubin Observatory as a Flagship Dark Matter Experiment*. Snowmass White Paper. arXiv:2203.07252.
- Baxter, E., Chang, C., Hearin, A., **Blazek, J.** *et al.* *Snowmass2021: Opportunities from Cross-survey Analyses of Static Probes*. Snowmass White Paper. arXiv:2203.06795.
- The LSST Dark Energy Science Collaboration. *Modified Gravity and Dark Energy models Beyond  $w(z)$ CDM Testable by LSST*. arXiv:1905.09687.
- Bechtol, K. *et al.* *Dark Matter Science in the Era of LSST*. arXiv:1903.04425.
- Mandelbaum, R., **Blazek, J.** *et al.* *Wide-field Multi-object Spectroscopy to Enhance Dark Energy Science from LSST*. arXiv:1903.09323.
- Newman, J., **Blazek, J.** *et al.* *Deep Multi-object Spectroscopy to Enhance Dark Energy Science from LSST*. arXiv:1903.09325.
- Rhodes, J. *et al.* *Cosmological Synergies Enabled by Joint Analysis of Multi-probe data from WFIRST, Euclid, and LSST*. 2019, BAAS, 51, 201.
- Drlica-Wagner, A. *et al.* *Probing the Fundamental Nature of Dark Matter with the Large Synoptic Survey Telescope*. arXiv:1902.01055.
- The LSST Dark Energy Science Collaboration. *LSST-DESC Science Requirements Document*. arXiv:1809.01669.
- The LSST Dark Energy Science Collaboration. *Optimizing the LSST Observing Strategy for Dark Energy Science: DESC Recommendations for the Wide-Fast-Deep Survey*. arXiv:1812.00515.
- The LSST Dark Energy Science Collaboration. *Optimizing the LSST Observing Strategy for Dark Energy Science: DESC Recommendations for the Deep Drilling Fields and other Special Programs*. arXiv:1812.00516.
- The LSST Dark Energy Science Collaboration. *LSST-DESC Science Roadmap*. [http://lsstdesc.org/assets/pdf/docs/DESC\\_SRM.latest.pdf](http://lsstdesc.org/assets/pdf/docs/DESC_SRM.latest.pdf).
- **Blazek, J.**, Seljak, U., & Mandelbaum, R. *Large-scale structure and the intrinsic alignment of galaxies*. Proceedings, IAU Symposium 308, The Zeldovich Universe. arXiv:1504.04412.