

# Stanford

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## Noah Sailer

Postdoctoral Scholar, Physics

### Bio

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#### PROFESSIONAL EDUCATION

- Ph.D., University of California, Berkeley , Physics (2025)
- B.A., Cornell University , Physics and Mathematics (2019)

#### STANFORD ADVISORS

- Zeeshan Ahmed, Postdoctoral Faculty Sponsor

#### LINKS

- Personal Website: <https://noahsailer.github.io>

### Publications

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#### PUBLICATIONS

- **Missing baryons recovered: A measurement of the gas fraction in galaxies and groups with the kinematic Sunyaev-Zel'dovich effect and CMB lensing** *PHYSICAL REVIEW D*  
Hadzhiyska, B., Ferraro, S., Farren, G. S., Sailer, N., Zhou, R.  
2025; 112 (12)
- **Mapping the gas density with the kinematic Sunyaev-Zel'dovich and patchy screening effects: A self-consistent comparison** *PHYSICAL REVIEW D*  
Hadzhiyska, B., Sailer, N., Ferraro, S.  
2025; 112 (10)
- **Bias-hardened estimators of patchy screening profiles** *PHYSICAL REVIEW D*  
Sailer, N., Hadzhiyska, B., Ferraro, S.  
2025; 112 (8)
- **Cosmology from Planck CMB lensing and DESI DR1 quasar tomography** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
de Belsunce, R., Krolewski, A., Chaussidon, E., Ferraro, S., Farren, G., Hadzhiyska, B., Tamone, A., Chiarenza, S., Sailer, N., Ravoux, C., Aguilar, J., Ahlen, S., Bianchi, et al  
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- **Cosmological constraints from the cross-correlation of DESI Luminous Red Galaxies with CMB lensing from Planck PR4 and ACT DR6** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
Sailer, N., Kim, J., Ferraro, S., Madhavacheril, M. S., White, M., Abril-Cabezas, I., Aguilar, J., Ahlen, S., Bond, J., Brooks, D., Burtin, E., Calabrese, E., Chen, et al  
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- **Evolution of structure growth during dark energy domination: Insights from the cross-correlation of DESI galaxies with CMB lensing and galaxy magnification** *PHYSICAL REVIEW D*

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- Sailer, N., DeRose, J., Ferraro, S., Chen, S., Zhou, R., White, M., Kim, J., Madhavacheril, M.  
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- **The Atacama Cosmology Telescope DR6 and DESI: structure formation over cosmic time with a measurement of the cross-correlation of CMB lensing and luminous red galaxies** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
Kim, J., Sailer, N., Madhavacheril, M. S., Ferraro, S., Abril-Cabezas, I., Aguilar, J., Ahlen, S., Bond, J., Brooks, D., Burtin, E., Calabrese, E., Chen, S., Choi, et al  
2024
  - **Predicting the 21-cm field with a hybrid effective field theory approach** *PHYSICAL REVIEW D*  
Baradaran, D., Hadzhiyska, B., White, M., Sailer, N.  
2024; 110 (10)
  - **DESI luminous red galaxy samples for cross-correlations** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
Zhou, R., Ferraro, S., White, M., Derose, J., Sailer, N., Aguilar, J., Ahlen, S., Bailey, S., Brooks, D., Claybaugh, T., Dawson, K., de la Macorra, A., Dey, et al  
2023
  - **Optimizing foreground mitigation for CMB lensing with combined multifrequency and geometric methods** *PHYSICAL REVIEW D*  
Darwish, O., Sherwin, B. D., Sailer, N., Schaan, E., Ferraro, S.  
2023; 107 (4)
  - **Foreground-immune CMB lensing reconstruction with polarization** *PHYSICAL REVIEW D*  
Sailer, N., Ferraro, S., Schaan, E.  
2023; 107 (2)
  - **Optical depth to reionization from perturbative 21 cm clustering** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
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  - **Optimal multifrequency weighting for CMB lensing** *PHYSICAL REVIEW D*  
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2021; 104 (12)
  - **Cosmology at high redshift - a probe of fundamental physics** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
Sailer, N., Castorina, E., Ferraro, S., White, M.  
2021
  - **Lower bias, lower noise CMB lensing with foreground-hardened estimators** *PHYSICAL REVIEW D*  
Sailer, N., Schaan, E., Ferraro, S.  
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