

# Publication list

Zhengyangguang Gong

## Refereed journal articles

**C3NN: Cosmological Correlator Convolutional Neural Network an Interpretable Machine-learning Framework for Cosmological Analyses**

Zhengyangguang Gong, Anik Halder, Annabelle Bohrdt, Stella Seitz and David Gebauer.

REFEREED APJ 971 156, 2024.

**Making the leap. Part I. Modelling the reconstructed lensing convergence PDF from cosmic shear with survey masks and systematics**

Alexandre Barthelemy, Anik Halder, Zhengyangguang Gong and Cora Uhlemann.

**Contribution:** modeling of systematics and PDF emulator construction

REFEREED JCAP03(2024)060.

**Beyond  $3\times 2$ -point cosmology: the integrated shear and galaxy 3-point correlation functions**

Anik Halder, Zhengyangguang Gong, Alexandre Barreira, Oliver Friedrich, Stella Seitz and Daniel Gruen.

**Contribution:** modeling of galaxy bias and numerical computation optimization

REFEREED JCAP10(2023)028.

**Cosmology from the integrated shear 3-point correlation function: simulated likelihood analyses with machine-learning emulators**

Zhengyangguang Gong, Anik Halder, Alexandre Barreira, Stella Seitz and Oliver Friedrich.

REFEREED JCAP07(2023)040.

**“The Goose” Pulsar Wind Nebula of PSR J1016–5857: The Birth of a Plerion**

Noel Klingler, Oleg Kargaltsev, George G. Pavlov, C.-Y. Ng, Zhengyangguang Gong and Jeremy Hare.

**Contribution:** providing the radio data reduction for the system

REFEREED APJ 932 89, 2022.

## In prep.

**Auto and cross 2-point correlation functions of critical points in 2D mildly non-Gaussian random fields**

Zhengyangguang Gong, Alexandre Barthelemy and Sandrine Codis

**Dark energy survey year 3 results: cosmology from the integrated weak lensing shear 3-point correlation function**

Anik Halder and Zhengyangguang Gong et al.