

# Columbia Department of Physics PhD Graduates

September 2018

## **Maximilian Abitbol**

*"Studying the effects of galactic and extragalactic foregrounds on cosmic microwave background observations."*

Dissertation Sponsor and Research Advisor: Professor Bradley Johnson

## **Heather McCarrick**

*"Design and performance of kinetic inductance detectors for cosmic microwave background polarimetry."*

Dissertation Sponsor and Research Advisor: Professor Bradley Johnson

## **Zachary Greene**

*"XENONIT: Spin-independent WIMP dark matter results and a model to characterize the reduction of electronegative impurities in its 3/2 ton liquid xenon detector."*

Dissertation Sponsor and Research Advisor: Professor Elena Aprile

## **Laura Havener**

*"Precision measurements of jet quenching in relativistic heavy ion collisions at the LHC."*

Dissertation Sponsor and Research Advisor: Professor Brian Cole