



Philippine Burdeau

Ph.D. Student in Energy Science and Engineering, admitted Autumn 2022

Bio

EDUCATION AND CERTIFICATIONS

- Msc, Bocconi University , Politics & Policy Analysis (2022)
- BS & MSc, Ecole polytechnique , Grandes Ecoles program - Applied math & physics (2020)

LINKS

- Personal site: <https://pburdeau.github.io>

Publications

PUBLICATIONS

- **Carbon Intensity of United States Natural Gas Supply.** *Environmental science & technology*
Zhang, Z., Rutherford, J., Littlefield, J., Ramadan, F., Ali Saafi, M., Ren, B., Jabbar, M. Y., Saad, D. M., Burdeau, P. M., Masnadi, M. S., Brandt, A.
2026
- **Controlled release testing of commercially available methane emission measurement technologies at the TADI facility** *ATMOSPHERIC MEASUREMENT TECHNIQUES*
McManemin, A., Juery, C., Blandin, V., France, J. L., Burdeau, P., Brandt, A. R.
2026; 19 (3): 923-934
- **High-resolution national mapping of natural gas composition substantially updates methane leakage impacts.** *Nature communications*
Burdeau, P. M., Sherwin, E. D., Biraud, S. C., Berman, E. S., Brandt, A. R.
2025
- **Technological Maturity of Aircraft-Based Methane Sensing for Greenhouse Gas Mitigation.** *Environmental science & technology*
El Abbadi, S. H., Chen, Z., Burdeau, P. M., Rutherford, J. S., Chen, Y., Zhang, Z., Sherwin, E. D., Brandt, A. R.
2024
- **Single-blind test of nine methane-sensing satellite systems from three continents** *ATMOSPHERIC MEASUREMENT TECHNIQUES*
Sherwin, E. D., El Abbadi, S. H., Burdeau, P. M., Zhang, Z., Chen, Z., Rutherford, J. S., Chen, Y., Brandt, A. R.
2024; 17 (2): 765-782