

## CURRICULUM VITAE

### STEF LENNARD BARDOEL

#### EDUCATION

University of Notre Dame (2018-present)	PhD
Eindhoven University of Technology (2012-2017)	MSc, Applied Physics, 2017 BSc, Applied Physics, 2015
Willibrord Gymnasium, Deurne, the Netherlands (2006-2012)	VWO, 2012

#### RESEARCH INTERESTS

Fluid Mechanics: gravity currents, turbulent mixing, multiphase flows (fog)

#### PAPERS AUTHORED

##### 2017

Goldshmid, R.H., Bardoel, S.L., Hocut, C.M., Zhong, Q., Liberzon, D., and Fernando, H.J.S., Separation of Upslope Flow over a Plateau, *Atmosphere* 2018, 9(5), 165, 2018. <https://doi.org/10.3390/atmos9050165>.

##### 2020

Fernando, H.J.S., Gultepe, I., Dorman, C., Pardyjak, E., Wang, Q., Hoch, S., Richter, D., Creegan, E., Gabersek, S., Bullock, T., Hocut, C., Chang, R., Alappattu, D., Dimitrova, R., Flagg, D., Grachev, A., Krishnamurthy, R., Singh, D.K., Lozovatsky, I., Nagare, B., Sharma, A., Wagh, S., Wainwright, C., Wroblewski, M., Yamaguchi, R., Bardoel, S., Coppersmith, R., Chisholm, N., Gonzalez, E., Gunawardena, N., Hyde, O., Morrison, T., Olson, A., Perelet, A., Perrie, W., Wang, S., Wauer, B., C-FOG: Life of Coastal Fog, *Bulletin of the American Meteorological Society*, 2020, In Press. DOI: 10.1175/BAMS-D-19-0070.1

#### PAPERS SUBMITTED

Bardoel, S.L., Horna Muñoz, D.V., Grachev, A.A., Krishnamurthy, R., Chamorro, L.P., Fernando, H.J.S., Fog Formation during Gravity Currents Interacting with Coastal Topography, Submitted to *Boundary Layer Meteorology*.

Dimitrova, D., Sharma, A., Fernando, H.J.S., Gultepe, I., Danchevski, V., Wagh, S., Bardoel, S.L., and Wang, S. WRF model simulations for coastal fog prediction, Submitted to *Boundary Layer Meteorology*.

Grachev, A.A., Krishnamurthy, R., Fernando, H.J.S., Fairall, C.W., Bardoel, S.L. and Wang, S., Atmospheric Turbulence Measurements in Coastal Zone with and without Fog, Submitted to *Boundary Layer Meteorology*.

#### PRESENTATIONS

Bardoel, S.L., Horna Muñoz, D.V., Grachev, A.A., Krishnamurthy, R., Chamorro, L.P., Fernando, H.J.S., Fog Formation during Gravity Currents Interacting with Coastal Topography, Abstract A108-04, AGU Fall Meeting, 1-17 December, 2020.

Bardoel, S.L., Horna Munoz, D., Fernando, H.J.S., and Zhong, Q. Coastal Gravity Currents: A Fog Formation Mechanism, Abstract A33R-2978. AGU Fall Meeting, San Francisco, 9-13, 2019.

Bardoel, S.L Dimension Reduction of Global Models Using Principal Component Analysis. WELTPP-20, 30 November-1 December, 2017.

Bardoel, S.L., Koelman, P.M.J., van Dijk, J. Dimension Reduction of an Argon Global Model using Principal Component Analysis, 28th NNV Symposium on Plasma Physics and Radiation Technology, 2017.