# UCHIDA, Takaya

#### **Office Address**

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# **Education**

Doctor of Philosophy, Physical Oceanography
Columbia University in the City of New York, New York, USA
GPA 3.86

September 2019

Master of Arts, Physical Oceanography Columbia University in the City of New York, New York, USA GPA 3.89 May 2016

Bachelor of Engineering, Environmental Engineering The University of Tokyo, Tokyo, Japan GPA 3.71 March 2014

## **Publications in Preparation**

- Uchida T., Q. Jamet, W. Dewar, D. Balwada, J. Le Sommer & T. Penduff. Diagnosing the thickness-weighted averaged eddy-mean flow interaction in an eddying North Atlantic ensemble. (*In preparation*).
- Jamet, Q., B. Deremble, N. Wienders, T. Uchida & W. Dewar. On wind-driven energetics of subtropical gyres. (*In preparation*).
- Balwada, D., W. Chen, J. C. Ohlmann, T. Uchida & R. Abernathey. Velocity Structure Functions in California's Coastal Seas from Surface Drifters. (*In preparation*).

## **Publications**

- Uchida, T., D. Balwada, R. Abernathey, G. McKinley, S. Smith & M. Lévy. The impact of seasonality in eddy iron fluxes on primary production in the Southern Ocean. *Nature Comm.*, **11**, 1125. (2020).
- Uchida, T., D. Balwada, R. Abernathey, G. McKinley, S. Smith & M. Lévy. The contribution of submesoscale over mesoscale eddy iron transport in the open Southern Ocean. *J. Adv. Model. Earth Syst.*, **11**, 3934-3958. (2019).

- Uchida, T., D. Balwada, R. Abernathey, P. Channing, E. Boss & S. Gille. Southern
  Ocean Phytoplankton Blooms Observed by Biogeochemical Floats. *JGR: Oceans*, 124
  (11), 7328-7343. (2019).
- Uchida, T., R. Abernathey & S. Smith. Seasonality of eddy kinetic energy in an eddy permitting global climate model. *Ocean Model.*, **118**, 41-58. (2017).

#### **Oral and Poster Presentations**

- Jamet, Q., T. Uchida, & W. Dewar. Diagnosing eddy-to-small scale transfers in eNATL60. *DRAKKAR 2020 Annual Workshop*. February 2020. Grenoble, France.
- Uchida, T., D. Balwada, R. Abernathey, G. McKinley, S. Smith & M. Lévy. A
  Mechanistic Understanding on Eddy Iron Transport in the Southern Ocean. AMS
  22nd Conf. on Atmos. and Oceanic Fluid Dyn. June 2019. Portland, Maine, USA.
- Uchida, T., R. Abernathey, G. McKinley, S. Smith, D. Balwada & M. Lévy. Seasonality of (sub)mesoscale turbulence in the Southern Ocean and its impact on primary production. *AGU Fall Meeting*, December 2018. Washington D.C., USA.
- Uchida, T., R. Abernathey & S. Smith. Idealized study of seasonal dynamics in the Southern Ocean. *Gordon Research Conf.*, June 2018. Andover, Massachusetts, USA.

### **Technical Skills**

- Proficient in compiling and running numerical models in Fortran, with experience using the MITgcm.
- Proficient in big data analysis and has contributed to the development of Python open source packages such as xgcm, xomega and oceanmodes all available on Github.

## **Service Activity**

- Reviewer for the Knut and Alice Wallenberg Foundation, Journal of Physical Oceanography, Journal of Advances in Modeling Earth Systems, Journal of Oceanography and Limnology, and Biogeosciences.
- Served as an elected representative of the Natural Sciences on the bargaining committee of the Graduate Workers of Columbia, United Auto Workers Local 2110, a labor union that represents all graduate workers at Columbia University since March 2017. Lead our unit to gain union recognition from the Columbia administration in November 2018.