
CONTACT INFORMATION	<i>Mobile:</i> (1)-646-706-6591 <i>Email:</i> spencerj@ldeo.columbia.edu <i>Website:</i> http://cspencerjones.github.io/
RESEARCH INTERESTS	Geophysical fluid dynamics The Lagrangian meridional overturning circulation Tracer transport by isopycnal and diapycnal mixing
EDUCATION	Scripps Institution of Oceanography, University of California, San Diego PhD in Physical Oceanography. GPA: 4.0. Dissertation title: The global meridional overturning circulation in an idealized two-basin model 2011–2018 Oxford University MPhys, Second Class Upper Division 2007–2011
RESEARCH EXPERIENCE	Lamont Doherty Earth Observatory Postdoctoral Research Fellow June 2018–present Supervisor: Professor Ryan Abernathey Scripps Institution of Oceanography Graduate Student July 2012 - May 2018 Supervisor: Professor Paola Cessi Oxford University Research Assistant July 2011 Supervisors: Professor David Marshall and Doctor David Munday Oxford University Undergraduate Student January - March 2011 Supervisors: Professor David Marshall and Doctor David Munday
AWARDS	Lamont Postdoctoral Fellowship Two-year postdoctoral fellowship June 2018 - present Geophysical Fluid Dynamics Fellowship Summer Program at Woods Hole Oceanographic Institution June - August 2013 St Peter's College, Oxford Scholarship for performance in the First Public Examination June 2008

PUBLICATIONS	<p>C. S. Jones and R. P. Abernathey. Isopycnal mixing and deep ocean ventilation in an idealized-geometry two-basin model <i>in prep.</i></p>
	<p>C. S. Jones and P. Cessi. Components of salt transport in the upper branch of the meridional overturning circulation (2018). <i>J.Phys. Oceanogr.</i>, 48, 2445–2456 doi: 10.1175/JPO-D-18-0005.1</p>
	<p>C. S. Jones and P. Cessi. Size matters: another reason why the Atlantic is saltier than the Pacific (2017), <i>J.Phys. Oceanogr.</i>, 47, 2843–2859 doi: 10.1175/JPO-D-17-0075.1</p>
	<p>P. Cessi and C. S. Jones. Warm-route versus cold-route interbasin exchange in the meridional overturning circulation (2017), <i>J.Phys. Oceanogr.</i>, 47,1981–1997 doi: 10.1175/JPO-D-16-0249.1</p>
	<p>C. S. Jones and P. Cessi. Interbasin transport of the meridional overturning circulation (2016). <i>J. Phys. Oceanogr.</i>, 46, 1157–1169, doi: 10.1175/JPO-D-15-0197.1</p>
TALKS	<p>C. S. Jones, C. Cenedese, E. P. Chassignet, P. F. Linden and B. R. Sutherland. Gravity current propagation up a valley (2015), <i>J. Fluid Mech.</i>, 762, 417–434, doi:10.1017/jfm.2014.627</p>
	<p>Isopycnal Mixing and Ventilation of the Deep Ocean. Conference on Atmospheric and Oceanic Fluid Dynamic 2019.</p>
	<p>The global meridional overturning circulation in an idealized two-basin model. Lamont-Doherty Earth Observatory. February 2018.</p>
	<p>The global meridional overturning circulation in an idealized two-basin model. Stony Brook University, January 2018. <i>Invited</i></p>
	<p>The effects of basin geometry on transport, stratification and salinity in the meridional overturning circulation. Physical Oceanography Dissertation Symposium (PODS), October 2018.</p>
	<p>The global meridional overturning circulation in an idealized two-basin model. Yale University, September 2018. <i>Invited</i></p>
POSTERS	<p>Size matters: another reason why the Atlantic is saltier than the Pacific. Conference on Atmospheric and Oceanic Fluid Dynamics 2017.</p>
	<p>Size matters: another reason why the Atlantic is saltier than the Pacific. Ocean Sciences Meeting 2018.</p>
	<p>Interbasin exchange in the meridional overturning circulation: basin width and the warm route versus the cold route. AMOC Science Team Meeting 2017.</p>
	<p>Interbasin transport of the meridional overturning circulation. Ocean Sciences Meeting 2016.</p>
	<p>Size Matters: Why is there overturning in the Atlantic but not in the Pacific? Conference on Atmospheric and Oceanic Fluid Dynamics 2015.</p>
TECHNICAL SKILLS	<p>Gravity current propagation up a valley. Ocean Sciences Meeting 2014.</p>
	<p>Scientific computer programming in MATLAB, python and FORTRAN. Familiar with the MIT general circulation model (including the adjoint model). Proficient with LaTeX, UNIX, Microsoft Office and OpenOffice.</p>

SERVICE &
OUTREACH

Student Member, Atmospheric and Oceanic Fluid Dynamics Committee. American Meteorological Society [February 2014 - February 2018]

Mentor, Graduate Peer Mentoring Program, Scripps Institution of Oceanography [October 2013 - June 2015]

Volunteer, National Ocean Sciences Bowl Regional Competition. Scripps Institution of Oceanography, 2013

Volunteer, Lamont Doherty Earth Observatory Open House, October 2018

Reviewer: Journal of Fluid Mechanics, Journal of Physical Oceanography, Journal of Climate, Geophysical Research Letters

TEACHING
EXPERIENCE

Columbia University
Guest Lecturer

GU4925 Principles Of Physical Oceanography

I prepared two lectures about analytical models of the circulation and stratification of the global ocean. I gave these lectures to a mixture of undergraduate and postgraduate students and created notes to appear online.

Fall 2018

UCSD

Teaching Assistant

ESYS 102, The Solid and Fluid Earth

I taught two sections of thirty students every week, graded homework and proctored exams. This course covered a wide variety of Earth systems topics at an upper undergraduate level.

Winter 2013

SIO 30, The Oceans

I taught two sections of thirty students every week. This course covered physical, chemical and biological oceanography at a lower undergraduate level.

Fall 2012

SEA-GOING
EXPERIENCE

Tidal Mixing in Straits Experiment. R/V Revelle [May 2014]