SHANNON N. KOPLITZ

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EDUCATION

Current-	Ph.D. candidate, Harvard University, Dept. of Earth and Planetary Sciences
(Fall 2016)	Thesis: Air Quality in Southeast Asia: The growing threat of coal emissions and
	land use change fires to human health in a rapidly evolving region.
	Advisors: Loretta J. Mickley and Daniel J. Jacob
March, 2013	M.A., Harvard University, Dept. of Earth and Planetary Sciences
June, 2011	M.S., Stanford University, Earth Systems Program
June, 2010	B.A., Stanford University
	Major: Human Biology (concentration in Environmental Science and Policy)
	Minor: Geological and Environmental Science

PUBLICATIONS

- **Koplitz, S.N.**, Mickley L.J., Marlier M.E., Buonocore J.J, Kim P.S., Liu T., Sulprizio M.P., DeFries R.S., Jacob D.J., Schwartz J., and Myers S.S. Public health impacts of the severe haze in Equatorial Asia in September-October 2015: A new tool for fire management to reduce downwind smoke exposure in the future, submitted to *Environmental Research Letters*.
- **Koplitz, S.N.**, Jacob D.J., Sulprizio M.P., Myllyvirta L., and Reid C. Burden of disease from rising coal emissions in Southeast Asia. Expected submission date, March 2016.
- **Koplitz, S.N.**, Mickley L.J., Jacob D.J., Kim P.S., Marlier M.E., DeFries R.S., and Myers S.S. Role of the Madden-Julian Oscillation during ENSO-neutral smoke events in Equatorial Asia: Implications for human health in the Malay Peninsula. Expected submission date, June 2016.
- Kim, P.S., Jacob, D.J., Mickley, L.J., **Koplitz, S.N**., Marlier, M.E., DeFries, R.S., Myers, S.S., Chew, B.N. and Mao, Y.H. (2015). Sensitivity of population smoke exposure to fire locations in Equatorial Asia, *Atmospheric Environment*, *102*, 11-17.
- Marlier M.E., DeFries R.S., Kim P.S., **Koplitz S.N.**, Jacob D.J., Mickley L.J., and Myers S.S. (2015). Fire emissions and regional air quality impacts from fires in oil palm, timber, and logging concessions in Indonesia, *Envrionmental Research Letters*, *10*(8), 085005.
- Marlier M.E., DeFries R.S., Kim P.S., Gaveau D.L.A., **Koplitz S.N.**, Jacob D.J., Mickley L.J., Margono B.A., and Myers S.S. (2015). Regional air quality impacts of future fire emissions in Sumatra and Kalimantan, *Environmental Research Letters*, 10(5), 054010.

Marlier, M.E., DeFries, R.S., Pennington, D., Nelson, E., Ordway, E. M., Lewis, J., **Koplitz, S.N**. and Mickley, L.J. (2015). Future fire emissions associated with projected land use change in Sumatra, *Global Change Biology*, *21*, 345-362.

PRESENTATIONS

"Burden of disease from rising coal emissions in Asia." International Symposium on Climate Change and Coal, Tokyo, Japan, May 2015 (invited video presentation).

"Burden of disease from rising coal emissions in Asia." 7th International GEOS-Chem Conference, Cambridge, MA, May 2015.

"Role of the Madden-Julian Oscillation in severe smoke events over the Malay Peninsula." 7th International GEOS-Chem Conference, Cambridge, MA, May 2015 (poster).

"Smoke from Sumatran fires: consequences of land-use change and anomalous meteorology for human health in Equatorial Asia." American Geophysical Union Fall Meeting, San Francisco, CA, December 2014.

"Smoke pollution in Equatorial Asia and implications for public health." 6th International GEOS-Chem Conference, Cambridge, MA, May 2013 (poster).

MEDIA COVERAGE

- January 27, 2016 Eco-Business: "Vietnam moves towards a coal-free future." V. Shah: http://www.eco-business.com/news/vietnam-moves-towards-a-coal-free-future/
- October 2, 2015 Vietnam News: "Air pollution from coal-fired power plants kills thousands." Vietnam News Staff: http://vietnamnews.vn/society/276556/air-pollution-from-coal fired-power-plants-kills-thousands.html
- August 18, 2015 Jakarta Globe: "Harvard Study Reveals Premature Death Risks From Indonesia's Expanding Use of Coal Power." Jakarta Globe Staff: http://jakartaglobe.beritasatu.com/news/harvard-study-reveals-premature-death-risks indonesias-expanding-use-coal-power/

RESEARCH EXPERIENCE

2011- present	Graduate student with Loretta J. Mickley and Daniel J. Jacob, Atmospheric
	Chemistry Modeling Group, Harvard University
Summer 2012	Fully funded participant in Community Earth System Model (CESM) workshop
	at National Center for Atmospheric Research (NCAR)
2008, 2010	Summer Research Assistant in atmospheric chemistry laboratory
	Supervisor: Professor Joelle Underwood, Loyola University, New Orleans LA

TEACHING EXPERIENCE

Teaching assistant or teaching fellow for the following classes.

Spring 2015	The Fluid Earth, Harvard University
Fall 2012	Atmospheric Chemistry and Physics, Harvard University
Winter 2011	Earth Systems History, Stanford University

SYNERGISTIC ACTIVITIES

2014-2015	Mentor for Harvard undergraduates conducting honors research (Matthew
	Pasiquini '16, D.T. Wang '16)
2014-2015	Co-leader of biweekly research group Graduate Student Forum
2013-2014	Co-leader of biweekly Atmospheric Chemistry Journal Club
2013-2014	Non-resident tutor/LGBT advocate (Adams House, Harvard University)
2013-2014	Lead instructor for all-day softball clinics at Northfield Mount Hermon School
Fall 2013	Participant in "Telling Your Story" outreach program at Horace Mann School for
	the Deaf and Hard of Hearing (4 th and 5 th grade)
2013	Co-organizer of Ozone Garden Outreach (Harvard University)
2011-2012	Co-organizer of Harvard University GeoClub St. Barbara's Day

PROFESSIONAL MEMBERSHIPS

American Geophysical Union, Earth Science Women's Network, Harvard Graduate Women in Science and Engineering

PERSONAL

Citizenship: United States