

University of California, Irvine
Department of Earth System Science
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RESEARCH INTERESTS

Coupled human and natural systems and sustainable systems analysis, including especially: energy technology and policy; pollution and natural resources embodied in international trade; socio-economic inertia and “lock-in” of environmental problems; assessments of impacts and vulnerabilities; and the complex interactions of energy systems, agriculture, climate change and global ecology

EDUCATION

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| 2008 | <i>PhD, Geological and Environmental Sciences</i>
Stanford University – Stanford, CA
Advisor: Dr. C. Page Chamberlain |
| 2001 | <i>JD, Virginia School of Law</i>
University of Virginia – Charlottesville, VA |
| 1998 | <i>BA, Political Science / Philosophy</i>
University of Florida – Gainesville, FL
Double major with honors, Phi Beta Kappa |

STUDENT AND POSTDOCTORAL ADVISEES

Robert Fofrich, Doctoral Student
Yue Qin, Postdoctoral Scholar
Dan Tong, Incoming Postdoctoral Scholar
Chaopeng Hong, Incoming Postdoctoral Scholar
Anna LoPresti, Masters Student (Graduated)
Christine Shearer, Former Postdoctoral Scholar (now at [CoalSwarm](#))

COMMUNITY SERVICE AND OUTREACH

- Journal Referee: *Nature, Science, Nature Climate Change, Nature Energy, Nature Geoscience, Nature Communications, PNAS, ES&T, Energy & Environmental Science, Geophysical Research Letters, Energy Policy, Ecological Economics, Climatic Change, Interdisciplinary Reviews-Climate Change, Environmental Research Letters, Global Biogeochemical Cycles, Global Environmental Change, Current Opinion in Environmental Sustainability, Climate Policy, Journal of Industrial Ecology, Journal of Cleaner Production, Environmental Sociology, Geology, Tectonics, and American Journal of Science*
- Contributing Author, Energy Systems Chapter, 2nd State of the Carbon Cycle Report, 2016
- Ad Hoc Reviewer, Department of Energy, National Science Foundation
- U.S. Government Reviewer, IPCC 5th Assessment Report (AR5)
- [Editorial Board](#), *Environmental Research Letters*
- Op-Ed Sacramento Bee, [“This should be California’s next step on climate change”](#)

RECENT AND UPCOMING TALKS

- University of Southern California, November 2017
- University of California, San Diego, October 2017
- Center for Earth System Science, Tsinghua University, September 2017
- Breakthrough Institute Dialogue, June 2017
- Pathways to 100% Renewable Energy Conference, May 2017
- Dept. of Energy, Biological and Environmental Research Advisory Committee, February 2017
- Dept. of Chemical Engineering, California Institute of Technology, February 2017
- Engineering and Public Policy, Carnegie Mellon University, January 2017
- Fall Meeting of the American Geophysical Union, December 2016

ACADEMIC EXPERIENCE

<i>2016-present</i>	<i>Associate Professor, Earth System Science</i>
<i>2017-present</i>	<i>Affiliated Professor, Civil and Environmental Engineering</i>
<i>2012-2016</i>	<i>Assistant Professor, Earth System Science</i> University of California, Irvine – Irvine, CA
<i>Summers</i> <i>2015 & 2016</i>	<i>Visiting Faculty, Center for Earth System Science</i> Tsinghua University – Beijing, China
<i>2015</i>	<i>Young International Distinguished Professor, Institute of Applied Ecology</i> Chinese Academy of Sciences – Shenyang, China
<i>2010-2012</i>	<i>Visiting Scholar, Joint Institute for the Study of Atmosphere and Ocean</i> University of Washington – Seattle, CA
<i>2009-2010</i>	<i>Guest Investigator, Marine Policy Center</i> Woods Hole Oceanographic Institute – Woods Hole, MA
<i>2008-2012</i>	<i>Postdoctoral Scholar, Department of Global Ecology</i> Carnegie Institution of Washington - Stanford, CA
<i>2004-2008</i>	<i>Research Assistant, Stable Isotope Biogeochemistry Laboratory</i> Stanford University – Stanford, CA

PROFESSIONAL EXPERIENCE

<i>2009-2017</i>	<i>Co-Founder and Chief Scientist</i> Near Zero – Seattle, WA
<i>2006-2010</i>	<i>Co-Founder and Executive Director</i> The Climate Conservancy – Stanford, CA
<i>2002-2004</i>	<i>Associate Attorney, Corporate & Securities Group</i> Gray, Cary, Ware & Freidenrich, LLP – Palo Alto, CA

JOURNAL PUBLICATIONS (* indicates student or postdoc author)

Google Scholar h-index: [29](#)
ORCID [0000-0002-9338-0844](#)

in review

Davis, SJ, NS Lewis, M Shaner, S Aggarwal, D Arent, IL Azevedo, SM Benson, T Bradley, J Brouwer, Y-M Chiang, CT Clack, A Cohen, S Doig, J Edmonds, P Fennell, CB Field, B Hannegan, B-M Hodge, MI Hoffert, E Ingersoll, P Jaramillo, KS Lackner, LR Lynd, KJ Mach, M Mastrandrea, J Ogden, PF Peterson, DL Sanchez, D Sperling, J Stagner, JE Trancik, C-J Yang, and K Caldeira. Providing energy services without net addition of carbon dioxide to the atmosphere.

Hong, C, Q Zhang, Y Zhang, **SJ Davis**, D Tong, Y Zheng and K He. Impacts of climate change on future air quality and human health in China.

Xie, W, W Xiong, J Pan, T Ali, Q Cui, J Meng, N Mueller, L Erda, and **SJ Davis**. Decreases in global beer supply due to extreme drought and heat.

Liu, X, F Pei, Y Wen, X Li; S Wang, J Wu, J Chen, K Feng, J Liu, K Hubacek, Q Xin, Y Chen, S Li, F Zhong, G Hu, J Ou, X Xu, G Xia, C Wu, and **SJ Davis**. Global urban expansion offsets climate-driven increases in terrestrial net primary productivity.

Shan, Y, D Guan, K Hubacek, **SJ Davis**, J Liu, Z Liu, N Fromer, Z Mi, J Meng, D Xiangzheng, Y Li, J Lin, H Schroeder, H Weisz, and HJ Schellnhuber. City-level climate change mitigation in China.

Zheng, B, Q Zhang, **SJ Davis**, P Ciais, C Hong, M Li, F Liu, D Tong, and K He. Infrastructure shapes differences in the carbon intensities of Chinese cities.

Guan, D, J Meng, D Reiner, Y Shan, Z Mi, N Zhang, S Shao, Z Liu, and **SJ Davis**. Drivers of China's CO₂ emissions 2007-2016.

Zhao, Y, K Guan, S Shukla, M Chen, and **SJ Davis**. Changes in cropping patterns during the 2012-2015 Californian mega-drought: a case study of Kern County.

Meng, J, D Guan, **SJ Davis**, K Feng, J Liu, Z Liu, S Shao, X Wang, Q Zhang and S Tao. The rise of South-South trade and its effect of global CO₂ emissions.

in press

Shaner, M, **SJ Davis**, NS Lewis, and K Caldeira. Geophysical constraints on the reliability of solar and wind power. [Energy and Environmental Science](#).

Tong, D, **SJ Davis**, D Guan, and Q Zhang. Super-polluting units in the global power sector. Nature Sustainability.

- 2017
51. Caro, D, **SJ Davis**, E Kebreab and F Mitloehner. Land-use change emissions from soybean feed embodied in Brazilian pork and poultry meat. Journal of Cleaner Production, doi: 10.1016/j.jclepro.2017.11.146
50. Zhao, H, X Li, X Jiang, Q Zhang, J Lin, GP Peters, M Li, G Geng, B Zheng, H Huo, L Zhang, **SJ Davis**, and K He. Effects of atmospheric transport and trade on air pollution deaths in China. Atmospheric Chemistry and Physics, v. 17, p. 10367-10381
49. Madadgar, S, A AghaKouchak, A Farahmand, L Li, and **SJ Davis**. Probabilistic estimates of drought impacts on agricultural production. Geophysical Research Letters, doi: 10.1002/2017GL073606
48. Clack, CT, SA Qvist, J Apt, M Bazilian, A Brandt, K Caldeira, **SJ Davis**, V Diakov, M Handschy, P Hines, P Jaramillo, DM Kammen, JCS Long, MG Morgan, A Reed, V Sivaram, J Sweeney, GR Tynan, DG Victor, JP Weyant, and JF Whitacre. Evaluation of a proposal for reliable low-cost grid power with 100% wind, water, and solar. Proceedings of the National Academy of Sciences, v. 114, n. 26, p. 6722-6727
47. Mazdidasni, O, A AghaKouchak, **SJ Davis**, S Madadgar, A Mehran, E Ragno, M Sadegh, A Sengupta, S Ghosh, CT Dhanya, and M Niknejad. Increasing probability of mass-mortality during Indian heatwaves. Science Advances, v. 3, n. 6, e1700066
46. Shearer*, C, R Fofrich*, and **SJ Davis**. Future CO₂ emissions and electricity generation from proposed coal-fired power plants in India. Earth's Future, v. 5, p. 408-416
45. Zhang, Q, X Jiang, D Tong, **SJ Davis**, H Zhao, G Geng, T Feng, B Zheng, Z Lu, DG Streets, J Lin, R Ni, D Guan, M Brauer, RV Martin, H Huo, Z Liu, D Pan, H Kan and K He. Transboundary health impacts of transported global air pollution and international trade. Nature, v. 543, p. 705-709
- 2016
44. Xi, F, **SJ Davis**, P Ciais, D Crawford-Brown, D Guan, C Pade, T Shi, J Lv, L Ji, L Bing, J Wang, W Wei, K-H Yang, I Galan, Y Zhang and Z Liu. Substantial global carbon uptake by cement carbonation. Nature Geoscience, v. 9, p. 880-883

43. Jones, CD, P Ciais, **SJ Davis**, P Friedlingstein, T Gasser, GP Peters, J Rogelj, DP van Vuuren, JG Canadell, A Cowie, RB Jackson, M Jonas, E Kriegler, E Littleton, JA Lowe, J Milne, G Shrestha, P Smith, A Torvanger and A Wiltshire. Simulating the Earth system response to negative emissions. Environmental Research Letters, v. 11, p. 095012
(*ERL Highlight of 2016*)
42. Lin, J, D Tong, **SJ Davis**, R Ni, X Tan, D Pan, H Zhao, Z Lu, DG Streets, T Feng, Q Zhang, Y Yan, Y Hu, J Li, Z Liu, K He, Y Huang and D Guan. Globalized climate forcing of aerosols via international trade. Nature Geoscience, v. 9, p. 790-794 **Cited >100 times**
41. Seto, KC, **SJ Davis**, RB Mitchell, E Stokes, G Unruh, D Urge-Vorsatz. Carbon lock-In: Types, causes, and policy implications. Annual Reviews of Environment and Resources, v. 41, p. 19.1-19.28
40. Shearer*, C, M West, K Caldeira and **SJ Davis**. Quantifying expert consensus against the existence of a secret, large-scale atmospheric spraying program. Environmental Research Letters, v. 11, p. 084011
(*ERL Highlight of 2016*)
39. **Davis, SJ** and NS Diffenbaugh. Dislocated interests and climate change. Environmental Research Letters, v. 11, p. 034009
38. Feng, K, **SJ Davis**, L Sun and K Hubacek. Correspondence: Reply to 'Reassessing the contribution of natural gas to US CO₂ emission reductions since 2007.' Nature Communications, v. 7, p. 10693
37. Smith, P, **SJ Davis**, F Creutzig, S Fuss, J Minx, B Gabrielle, E Kato, RB Jackson, A Cowie, E Kriegler, D van Vuuren, J Rogelj, P Ciais, J Milne, JP Canadell, D McCollum, V Krey, G Shrestha, P Friedlingstein, T Gasser, A Grübler, WK Heidug, M Jonas, CD Jones, F Kraxner, E Littleton, J Lowe, JR Moreira, N Nakicenovic, M Obersteiner, A Patwardhan, G Peters, M Rogner, E Rubin, A Sharifi, A Torvanger, Y Yamagata, J Edmonds and C Yongsung. Biophysical and economic limits to negative CO₂ emissions. Nature Climate Change, v. 6, p. 42-50 **Cited >100 times**
- 2015
36. Hannam, P, Z Liao, **SJ Davis**, and M Oppenheimer. Developing country finance in a post-2020 global climate agreement. Nature Climate Change, v. 5, p. 983-987
35. Liu, Z, **SJ Davis**, K Feng, K Hubacek, S Liang, and LD Anadon. Targeted opportunities to address the climate-trade dilemma in China. Nature Climate Change, v. 6, p. 201-206
34. Rozenberg, J, **SJ Davis**, U Narloch, S Hallegatte. Climate constraints on the carbon intensity of economic growth. Environmental Research Letters, v. 10, p. 095006

33. LoPresti*, A, A Charland, D Woodard, JT Randerson, NS Diffenbaugh, and **SJ Davis**. Rate and velocity of climate change caused by cumulative carbon emissions. Environmental Research Letters, v. 10, p. 095001
32. Liu, Z, D Guan, W Wei, **SJ Davis**, P Ciais, J Bai, S Peng, Q Zhang, K Hubacek, G Marland, R Andres, DC Brown, J Lin, H Zhao, C Hong, TA Boden, K Feng, G Peters, F Xi, J Liu, Y Li, Y Zhao, N Zeng, and K He. Reduced carbon emission estimates from fossil fuel combustion and cement production in China. Nature, v. 524, p. 335-338 **Cited >100 times**
31. Kimball, S, M Lulow, Q Sorenson, K Balazs, Y Fang, **SJ Davis**, and T Huxman. Cost-effective ecological restoration. Restoration Ecology, doi: 10.1111/rec.12261
30. Pongratz, J, E Hansis, and **SJ Davis**. Relevance of methodological choices for accounting of land use change carbon fluxes. Global Biogeochemical Cycles, v. 29, p. 1230-1246.
29. Feng, K, **SJ Davis**, L Sun, and K Hubacek. Drivers of the US CO₂ emissions 1997-2013. Nature Communications, v. 6, p. 7714.
28. Zhao, HY, Q Zhang, **SJ Davis**, DB Guan, Z Liu, H Huo, JT Lin, WD Liu, and KB He. Assessment of China's virtual air pollution transport embodied in trade by a consumption-based emission inventory. Atmospheric Chemistry and Physics, v. 15, p. 5443-5456
27. Liu, J, H Mooney, V Hull, **SJ Davis**, J Gaskell, T Hertel, J Lubchenco, KC Seto, P Gleick, C Kremen, and S Li. Systems integration for global sustainability. Science, v. 347, p. 963 **Cited >200 times**
- 2014 26. Caro, D, A LoPresti*, **SJ Davis**, S Bastianoni, and K Caldeira. CH₄ and N₂O emissions embodied in international trade of meat. Environmental Research Letters, v. 9, p. 114005
25. **Davis, SJ** and C Shearer*. A crack in the natural-gas bridge. Nature, v. 514, p. 436-437
24. Shearer*, C, J Bistline, M Inman, and **SJ Davis**. The effect of natural gas supply on US renewable energy and CO₂ emissions. Environmental Research Letters, v. 9, p. 094008 (*ERL Highlight of 2014*)
23. Raupach, MR, **SJ Davis**, GP Peters, RM Andrew, JG Canadell, P Ciais, P Friedlingstein, F Jotzo, DP van Vuuren, and C Le Quéré. Sharing a quota on cumulative carbon emissions. Nature Climate Change, v. 4, p. 873-879 **Cited >100 times**

22. **Davis, SJ** and RH Socolow. Commitment accounting of CO₂ emissions. Environmental Research Letters, v. 9, p. 084018 (*ERL Highlight of 2014* and selected in 2016 as one of ERL's 10th Anniversary "*Ten Milestone Articles*")
21. **Davis, SJ**, J Burney, J Pongratz, and K Caldeira. Methods for attributing land-use emissions to products. Carbon Management, v. 5, n. 2, p. 233-245
20. Caro, D, **SJ Davis**, S Bastianoni, and K Caldeira. Global and regional trends in greenhouse gas emissions from livestock. Climatic Change, v. 126, p. 203-216
19. Guan, D, J Lin, **SJ Davis**, D Pan, K He, C Wang, DJ Wuebbles, DG Streets, and Q Zhang. Reply to Lopez et al.: Consumption-based accounting helps mitigate global air pollution. Proceedings of the National Academy of Sciences, v. 111, n. 26, p. E2631
18. Lin, J, D Pan, **SJ Davis**, Y Kuang, Q Zhang, K He, C Wang, D Streets, and D Guan. China's international trade and air pollution in the United States. Proceedings of the National Academy of Sciences, v. 111, n. 5, p. 1736-1741 (*Winner of 2014 Cozzarelli Prize*) **Cited >100 times**
- 2013
17. Andrew, R, **SJ Davis**, and GP Peters. Climate policy and dependence on traded carbon. Environmental Research Letters, v. 8, no. 3, p. 034011
16. Feng, K, **SJ Davis**, X Li, D Guan, L Sun, Z Liu, and K Hubacek. Outsourcing CO₂ within China. Proceedings of the National Academy of Sciences, v. 110, p. 11654-11659 **Cited >100 times**
15. Haverd, V., MR Raupach, PR Briggs, JG Canadell, **SJ Davis**, RM Law, CP Meyer, GP Peters, C Pickett-Heaps, and B Sherman. The Australian terrestrial carbon budget. Biogeosciences, v. 10, p. 851-869
14. **Davis, SJ**, L Cao, K Caldeira, and MI Hoffert. Rethinking wedges. Environmental Research Letters, v. 8, n. 1, p. 011001
- 2012
13. Peters, GP, **SJ Davis**, and R Andrews. A synthesis of carbon in international trade. Biogeosciences, v. 9, p. 3247-3276 **Cited >100 times**
12. Dickinson, WR, TF Lawton, M Pecha, **SJ Davis**, GE Gehrels, and RA Young. Provenance of the Paleogene Colton Formation (Uinta basin) and Cretaceous–Paleogene provenance evolution in the Utah foreland: Evidence from U–Pb ages of detrital zircons, paleocurrent trends, and sandstone petrofacies. Geosphere, v. 8, p. 854-880

11. Andres, RJ, TA Boden, F-M Breon, P Ciais, **SJ Davis**, D Erickson, JS Gregg, A Jacobson, G Marland, J Miller, T Oda, JGJ Olivier, MR Raupach, P Rayner, and K Treanton. A synthesis of carbon dioxide emissions from fossil-fuel combustion. Biogeosciences, v. 9, p. 1845-1871 **Cited >100 times**
 10. Chamberlain, CP, HT Mix, A Mulch, MT Hren, ML Kent-Corson, **SJ Davis**, TW Horton, and SA Graham. The Cenozoic climatic and topographic evolution of the western North American Cordillera. American Journal of Science, v. 312, p. 213-262
- 2011
9. **Davis, SJ**, GP Peters, and K Caldeira. The supply chain of CO₂ emissions. Proceedings of the National Academy of Sciences, v. 108, n. 45, p. 18554-18559. See also, <http://supplychainCO2.stanford.edu/> **Cited >200 times**
 8. Caldeira, K and **SJ Davis**. Accounting for carbon dioxide emissions: A matter of time. Proceedings of the National Academy of Sciences, v. 108, n. 21, p. 8533-8534
- 2010
7. **Davis, SJ**, D Matthews, and K Caldeira. Future CO₂ emissions and climate change from existing energy infrastructure. Science, v. 329, p. 1330-1335 **Cited >400 times**
 6. **Davis, SJ**, WR Dickinson, GE Gehrels, JE Spencer, TF Lawton, and AR Carroll. The Paleogene California River: Evidence of Mojave-Uinta paleodrainage from U-Pb ages of detrital zircons. Geology, v. 38, p. 931-934
 5. Burney, J, **SJ Davis**, and DB Lobell. Greenhouse gas mitigation by agricultural intensification. Proceedings of the National Academy of Sciences, v. 107, n. 26, p. 12052-12057 **Cited >600 times**
 4. **Davis, SJ** and K Caldeira. Consumption-based accounting of CO₂ emissions. Proceedings of the National Academy of Sciences, v. 107, n. 12, p. 5687-5693 **Cited >900 times**
- 2009
3. **Davis, SJ**, HT Mix, BA Wiegand, AR Carroll, and CP Chamberlain. Synorogenic evolution of large-scale drainage patterns: Isotope paleohydrology of sequential Laramide basins. American Journal of Science, v. 309, p. 549-602
 2. **Davis, SJ**, A Mulch, AR Carroll, TW Horton, and CP Chamberlain. Paleogene Landscape Evolution of the central North American Cordillera: Developing topography and hydrology in the Laramide Foreland. GSA Bulletin, v. 121, p. 100-116
 1. **Davis, SJ**, BA Wiegand, AR Carroll, and CP Chamberlain. The effect of drainage reorganization on paleoaltimetry studies: An example from the Paleogene Laramide Foreland. Earth and Planetary Science Letters, v. 275, p. 258-268

ONLINE PUBLICATIONS

- 2016 Inman, M, DL Sanchez, MD Mastrandrea, **SJ Davis**, and K Fries. An Unprecedented Push for Low-carbon Energy Innovation. A report published by Near Zero: <http://www.nearzero.org/reports/mission-innovation>
- 2014 Shearer, C, M Inman, and **SJ Davis**. Keystone XL: The Climate Impact: An Expert Elicitation. A report published by Near Zero: <http://www.nearzero.org/reports/KXL/>
- 2012 Inman, M and **SJ Davis**. How Low Will Solar Photovoltaic Prices Go?: An Expert Discussion. A report published by Near Zero: <http://www.nearzero.org/reports/pv-learning/>
- Inman, M and **SJ Davis**. Energy High in the Sky: Expert Perspectives on Airborne Wind Energy Systems. A report published by Near Zero: <http://www.nearzero.org/reports/AirborneWind/>
- 2011 **Davis, SJ**. Department of Energy Funding Priorities: An Expert Discussion. A report published by Near Zero: <http://www.nearzero.org/reports/doe-priorities>
- 2009 **Davis, SJ**, Reducing the Carbon Footprint of Fat Tire[®] Amber Ale by Changing Agricultural Practices: Potential and Limitations. A report by The Climate Conservancy.
- 2008 **Davis, SJ**. The Carbon Footprint of Earthbound Farm[®] Mixed Baby Greens. A report by The Climate Conservancy.
- Davis, SJ**. The Carbon Footprint of Fat Tire[®] Amber Ale. A report by The Climate Conservancy: http://www.ess.uci.edu/~sjdavis/pubs/Fat_Tire_2008.pdf
- 2007 **Davis, SJ**, Toward a Product-Level Standard: Life Cycle Analysis of Greenhouse Gas Emissions. The London Accord.

PROFESSIONAL AFFILIATIONS

- State Bar of California (*inactive status*)
- American Association for the Advancement of Science
- American Geophysical Union

TEACHING

- ESS 178 Solving the Carbon-Climate-Energy Problem
- ESS 60C Global Environmental Issues
- ESS 158 Sustainable Systems Analysis
- ESS 192 Careers in Earth System Science

AWARDS AND GRANTS

- 2017 Ecological Society of America Sustainability Science Award
<http://www.esa.org/esablog/meetings/esa-2017-annual-meeting/jianguo-liu-2017-sustainability-science-award/>
- 2016 NSF/USDA Innovations at the Nexus of Food, Energy and Water Systems (INFEWS), "Monitoring and managing food, energy, and water systems under stress: The California crucible." (PI: **SJ Davis**), \$2.88M total, \$1.88M to UC Irvine:
http://www.nsf.gov/awardsearch/showAward?AWD_ID=1639318
- TomKat UC Carbon Neutrality Project, "Reaching the other side of the bridge: Challenges in eliminating natural gas as an energy source" (PI: **SJ Davis**), \$55,000:
<https://www.nceas.ucsb.edu/projects/12746#>
- UC Irvine award for Outstanding Contributions to Undergraduate Education
- Alfred P. Sloan Foundation, Does the elicitation mode matter? Comparing different methods for eliciting expert judgment. (PI: Erin Baker, UMass Amherst), \$20,000
- 2015 Gordon & Betty Moore Foundation, Funding for Workshop: "Critical Barriers to Progress in Sustainability Science," (PI: **SJ Davis**), \$30,000
- PNAS Cozzarelli Prize
- 2014 Research Support from Near Zero, (PI: **SJ Davis**), \$100,000
- Research Support from Aspen Global Change Institute, (PI: **SJ Davis**), \$11,000
- 2013 NSF Coupled Human and Natural Systems (CHANS) Fellowship, \$1,500
- 2012 Research Support from Near Zero, (PI: **SJ Davis**), \$68,276

SELECTED MEDIA COVERAGE

- 2017 New York Times, "India's Rising Temperatures Are Already Deadly, Study Shows,":
<https://goo.gl/X8JvIv>
- Carbon Brief, "India's planned coal plants could 'single-handedly jeopardise' 1.5C target," Jocelyn Timperly, <https://goo.gl/93EcGG>
- Scientific American, "India's Energy Landscape Is Rapidly Changing," Kavya Balaraman: <https://goo.gl/lcxPSR>

The Economist, "Airborne particles cause more than 3m early deaths a year,":
<https://goo.gl/Poiyk8>

Associated Press, "Dirty air from global trade kills at home and abroad," Seth Borenstein: <https://goo.gl/vdK4v6>

USA Today, "How your cheap Chinese-made products may be killing thousands in China," Traci Watson: <https://goo.gl/9Xp6sK>

New Scientist, "Western demand for goods from China is killing 100,000 a year," Chelsea Whyte: <https://goo.gl/t06mbE>

The Guardian, "Thousands of pollution deaths worldwide linked to western consumers – study," Hannah Devlin: <https://goo.gl/atp5nV>

2016 Architect Magazine, "Concrete as a Carbon Sink?," Blaine Brownell:
<https://goo.gl/BMiV6B>

Science, "Cement soaks up greenhouse gases," Warren Cornwall:
<https://goo.gl/h6UmNf>

New York Times, "Today's Energy System Could Blow Paris Climate Goals," Karl Ritter: <https://goo.gl/YyGFNx>

New York Times, "Scientists Just Say No to 'Chemtrails' Conspiracy Theory," Henry Fountain: <http://goo.gl/tn2sll>

Forbes, "Scientists Published An Article On 'Chemtrails' (They Aren't Real)," David DiSalvo: <http://goo.gl/jO2mSq>

Motherboard (Vice), "Annoyed Scientists Publish Study on Chemtrail Conspiracy Theories," Sarah Emerson: <http://goo.gl/IUtqFQ>

USA Today, "Scientists disprove airplane 'chemtrail' theory," Mary Bowerman:
<http://goo.gl/M5hE9q>

NPR, *Marketplace*, "Can you grow the economy without adding pollution?" Scott Tong: <http://goo.gl/2BPcb5>

2015 Climate Central, "Geoengineering a 'Risky' Bet, Scientists Warn Negotiators" John Upton: <http://goo.gl/KWumMV>

NPR, *Marketplace*, "Shell pulls out of Arctic. For how long?": <http://goo.gl/wswu1O>

Scientific American, "Cheap Goods from China Have High Carbon Cost" Christopher Intagliata: <http://goo.gl/kSCbP0>

Sinosphere (New York Times blog), "China's Exports Are Closely Linked to Its Emissions," Chris Buckley: <http://goo.gl/74Xqx8>

New York Times, "China's Carbon Dioxide Emissions May Have Been Overstated by More Than 10%," Chris Buckley: <http://goo.gl/b4CqmP>

Scientific American, "How Far Does Obama's Clean Power Plan Go in Slowing Climate Change?" David Biello: <http://goo.gl/TTrvuG>

National Geographic, "Climate Mission Impossible: Scientists Say Fossil Fuels Must Go Untapped," Christina Nunez: <http://goo.gl/le7JvT>

2014 Scientific American, "Natural Gas Offers Little Benefit in Fight against Global Warming," Gayathri Vaidyanathan: <http://goo.gl/w8LWOO>

Science, "Abundant natural gas may do little to reduce U.S. emissions, study suggests," Aleszu Bajak: <http://goo.gl/6A62g0>

The Washington Post, "Natural gas won't save us from global warming, study confirms," Max Ehrenfrund: <http://goo.gl/4tHZYf>

National Geographic, "New Reports Offer Clearest Picture Yet of Rising Greenhouse Gas Emissions," Brian Clark Howard: <http://goo.gl/CRpdXw>

Dot Earth (New York Times blog), "Accounting for the Expanding Carbon Shadow From Coal-Burning Plants," Andrew Revkin: <http://nyti.ms/1tHvhqt>

National Geographic, "Tons of emissions from power plants are already locked in, study says," Joe Eaton: <http://goo.gl/CrGIvt>

Science, "Time to focus on committed, not current, carbon emissions, study argues," Eli Kintisch: <http://goo.gl/mYGuVG>

Washington Post, "Beef pollutes more than pork, poultry, study says," Seth Borenstein: <http://wapo.st/1lmPXgA>

Los Angeles Times, "Climate scientists have a beef with beef," Geoffrey Mohan: <http://fw.to/Sb7iSmR>

Wall Street Journal, "U.S. Consumers Contribute, Not a Little, to Chinese Air Pollution," Brian Spegele, <http://on.wsj.com/1fansUR>

Washington Post, "Study: Pollution from Chinese factories is harming air quality on U.S. West Coast," William Wan: <http://wapo.st/1eNDP3P>

NPR, *Marketplace*, "American pollution: Made in China": <http://bit.ly/1kSNaj0>

The Atlantic, "How the Western World Enables China's Air Pollution," John Metcalfe: <http://bit.ly/1jDhElQ>

Los Angeles Times, "China's industry exporting air pollution to U.S., study says," Tony Barboza: <http://lat.ms/1h2YdRH>

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