

## CURRICULUM VITAE

Updated: November 14<sup>th</sup>, 2018

### Jasper F. Kok, Ph.D.

*Associate Professor*

Department of Atmospheric and Oceanic Sciences  
University of California, Los Angeles

#### EDUCATION

- 2009**      **Ph. D.**, Applied Physics, *University of Michigan*, USA (received Distinguished Dissertation Award)
- 2003**      **Professional Science Master's (PSM)**, Applied Physics, *University of Arizona*, USA
- 2001**      **B.S.**, Physics, *Leiden University*, The Netherlands

#### PROFESSIONAL EXPERIENCE (Post – Ph. D.)

- 2017 -**      Associate professor, Department of Atmospheric and Oceanic Sciences, University of California – Los Angeles
- 2013 -**      Assistant professor, Department of Atmospheric and Oceanic Sciences, University of California – Los Angeles
- 2017**
- 2011 -**      National Science Foundation Postdoctoral Research Fellow with Natalie Mahowald at Cornell University, Ithaca, NY
- 2013**
- 2009 -**      Postdoctoral Fellow, Advanced Study Program (ASP), National Center for Atmospheric Research (NCAR), Boulder, CO
- 2011**

#### HONORS AND AWARDS



- 2019**      Received the American Meteorological Society's **Henry Houghton Early Career award** for "novel approaches to studying the physics of dust emissions into the atmosphere and the interactions of dust aerosols with Earth's climate and beyond"
- 2016**      Received an **NSF CAREER award**
- 2015**      Awarded a **UCLA Faculty Career Development Award**
- 2011**      Awarded a **National Science Foundation Postdoctoral Research Fellowship** in Atmospheric and Geospace Sciences
- 2010**      **Nominated** for the 2010 Council of Graduate Schools **National Distinguished Dissertation Award**
- 2009**      Awarded an **Advanced Study Program Postdoctoral Fellowship** from the National Center for Atmospheric Research (NCAR)
- 2009**      Received the 2009 **Distinguished Dissertation Award** from the University of Michigan (1 of 8 university-wide out of 792 dissertations)
- 2008**      Received **Predocctoral Fellowship** from the Horace H. Rackham graduate school
- 2007**      Received **Outstanding Student Paper Award** at American Geophysical Union Fall Meeting
- 2006**      Received the **Thomas M. Donahue Memorial Student Award**


#### PUBLICATIONS (*postdocs*, (visiting) graduate students)





Denotes paper that received enough citations to be in top 1% of its academic field (Thomson Reuters / Web of Science designation)

Denotes paper published in last two years that received enough citations to be in top 0.1% of its academic field (Thomson Reuters / Web of Science designation)

60. [Huang Y.](#), **J. F. Kok**, *R. L. Martin*, N. Swet, I. Katra, T. E. Gill, R. L. Reynolds, and L. S. Freire, Fine dust emissions from active sands at coastal Oceano Dunes, California, in review
59. Ito A., ..., **J. F. Kok**, ..., Constraints on attribution of labile iron in aerosols to combustion and mineral dust sources from observations and models, in review.
58. Siminovich, A., T. Elperin, I. Katra, **J. F. Kok**, R. Sullivan, S. Silvestro, and H. Yizhaq, Numerical study of shear stress distribution over sand ripples under terrestrial and Martian conditions, in review.
57. Yizhaq, H., **J. F. Kok**, A. Provenzale, G. Bel, S. Silvestro, T. Elperin, and I. Katra, The origin of the transverse instability of aeolian megaripples, in review.
56. *Martin, R. L.*, and **J. F. Kok**, Equal susceptibility and size-selective mobility in aeolian saltation, *arXiv:1707.09964*, in revision.
55. Swet, N. T. Elperin, **J. F. Kok**, *R. L. Martin*, H. Yizhaq, I. Katra, Can active sands generate dust particles by wind-induced processes?, *Earth and Planetary Science Letters*, in press.
54. Myriokefalitakis, S., ..., **J. F. Kok**, ..., The GESAMP atmospheric iron deposition model intercomparison study, *Biogeosciences*, 15, 6659-6684, 2018.
53. Rodriguez, S., S. Le Mouélic, J. W. Barnes, **J. F. Kok**, S. C. R. Rafkin, R. D. Lorenz, B. Charnay, J. Radebaugh, and 22 co-authors (2018), Observational evidence for active dust storms on Titan at Equinox, *Nature Geoscience*, 11, 727-32.
52. *Martin, R. L.*, and **J. F. Kok**, Distinct thresholds for the initiation and cessation of aeolian saltation from field measurements (2018), *Journal of Geophysical Research – Earth Surface*, 123, 1546-65.
51. J. A. Gillies, V. Etyemezian, G. Nikolich, W.G. Nickling, and **J. F. Kok** (2018), Changes in the saltation flux following a step change in macro-roughness, *Earth and Planetary Science Letters*, 43, 1871-84.
50. **Kok, J. F.**, D. S. Ward, N. M. Mahowald, and A. T. Evan (2018), Global and regional importance of the direct dust-climate feedback, *Nature Communications*, 9, 241.
49. *Martin, R. L.*, **J. F. Kok**, C. H. Hugenholtz, T. E. Barchyn, M. Chamecki, and J. T. Ellis (2018), High-frequency measurements of aeolian saltation flux: Field-based methodology and applications, *Aeolian Research*, 30, 97-114.
48. Sullivan, R., and **J. F. Kok** (2017), Aeolian saltation on Mars at low wind speeds, *Journal of Geophysical Research – Planets*, 122, 2111-2143.
47. *Martin, R. L.*, and **J. F. Kok** (2017), Wind-invariant saltation heights imply linear scaling of aeolian saltation flux with shear stress, *Science Advances*, 3, e1602569.
46. [Comola, F.](#), **J. F. Kok**, J. Gaume, E. Paterna, and M. Lehning (2017), Fragmentation of wind-blown snow crystals, *Geophysical Research Letters*, 44, 4195-4203.
45. Ito, A. and **J. F. Kok** (2017), Do dust emissions from sparsely vegetated regions dominate atmospheric iron supply to the Southern Ocean? *Journal of Geophysical Research – Atmospheres*, 122, 3987-4002.
44. **Kok, J. F.**, D. A. Ridley, Q. Zhou, R. L. Miller, C. Zhao, C. L. Heald, D. S. Ward, S. Albani, and K. Haustein (2017), Smaller desert dust cooling effect estimated from analysis of dust size and abundance, *Nature Geoscience*, 10, 274-8.  
43. Ridley, D. A., C. L. Heald, **J. F. Kok**, and C. Zhao (2016), An Observationally-Constrained estimate of Global Dust AOD, *Atmospheric Chemistry and Physics*, 16, 15,097-117.

42. Neakrase, L. D. V., M. R. Balme, F. Esposito, T. Kelling, M. Klose, **J. F. Kok**, B. Marticorena, J. Merrison, M. Patel, and G. Wurm (2016), Particle lifting processes in dust devils, *Space Science Reviews*, 203, 347-76.
41. Schmerler, E., I. Kutra, **J. F. Kok**, H. Tsoar, and H. Yizhaq (2016), Experimental and numerical study of Sharp's shadow zone hypothesis on sand ripple wavelength, *Aeolian Research*, 22, 37-46.
40. Újvári, G., **J. F. Kok**, G. Varga, and J. Kovács (2016), The physics of wind-blown loess: Implications for grain size proxy interpretations in Quaternary paleoclimate studies, *Earth Science Reviews*, 154, 247-78.
39. Zhang, Y. N. Mahowald, R. A. Scanza, E. Journet, K. Desboeufs, S. Albani, **J. F. Kok**, G. Zhuang, Y. Chen, D. D. Cohen, A. Paytan, M. D. Patey, E. P. Achterberg, J. P. Engelbrecht, and K. W. Fomba (2015), Modeling the Global Emission, Transport and Deposition of Trace Elements associated with Mineral Dust, *Biogeosciences*, 12, 5771-92.
38. Shao, Y., W. Nickling, G. Bergametti, H. Butler, A. Chappell, P. Findlater, J. Gillies, M. Ishizuka, M. Klose, **J. F. Kok**, J. Leys, H. Lu, B. Marticorena, G. McTainsh, C. McKenna-Neuman, G. Okin, C. Strong, and N. Webb (2015), A Tribute to Michael R. Raupach for Contributions to Aeolian Fluid Dynamics, *Aeolian Research*, 19, 37-54.
37. Pähtz, T, O. Duran, T.-D. Ho, A. Valance, and **J. F. Kok** (2015), The fluctuation energy balance in non-suspended fluid-mediated particle transport, *Physics of Fluids*, 27, 013303.
36. Scanza, R. A., N. Mahowald, S. Ghan, C. S. Zender, **J. F. Kok**, X. Liu, Y. Zhang, and S. Albani (2015), Modeling dust as component minerals in the Community Atmosphere Model: development of framework and impact on radiative forcing, *Atmospheric Chemistry and Physics*, 15, 537-61.
35. **Kok, J. F.**, S. Albani, N. M. Mahowald, and D. S. Ward (2014), An improved dust emission model – Part 2: Evaluation in the Community Earth System Model, with implications for the use of dust source functions, *Atmospheric Chemistry and Physics*, 14, 13,043-61.
34. **Kok, J. F.**, N. M. Mahowald, G. Fratini, J. A. Gillies, M. Ishizuka, J. Leys, M. Mikami, M.-S. Park, S.-U. Park, R. S. Van Pelt, and T. M. Zobeck (2014), An improved dust emission model – Part 1: Model description and comparison against measurements, *Atmospheric Chemistry and Physics*, 14, 13,023-41.
33. Barchyn, T. E., R. L. Martin, **J. F. Kok**, and C. H. Hugenholtz (2014), Fundamental mismatches between measurements and models in aeolian sediment transport prediction: The role of small-scale variability, *Aeolian Research*, 15, 245-51, DOI: 10.1016/j.aeolia.2014.07.002.
32. Albani, S., N. M. Mahowald, A. T. Perry, R. A. Scanza, C. S. Zender, N. G. Heavens, V. Maggi, **J. F. Kok**, and B. L. Otto-Bliesner (2014), Improved dust representation in the Community Atmosphere Model, *Journal of Advances in Modeling Earth Systems*, 6, 541-70, DOI: 10.1002/2013MS000279.
31. Mahowald, N. M., S. Albani, **J. F. Kok**, S. Engelstaedter, R. Scanza, D. S. Ward, and M. Flanner (2014), The size distribution of desert dust aerosols and its impact on the Earth system, *Aeolian Research*, 15, 53-71, DOI: 10.1016/j.aeolia.2013.09.002.  Highly Cited Paper
30. Pähtz, T, E. J. R. Parteli, **J. F. Kok**, and H. J. Herrmann (2014), Analytical model for flux saturation in sediment transport, *Physical Review E*, 89, 052213.
29. Kutra, I., H. Yizhaq, and **J. F. Kok** (2014), Mechanisms limiting the growth of aeolian megaripples, *Geophysical Research Letters*, 41, 858-65.

28. Yizhaq, H., **J. F. Kok**, and I. Katra (2014), Basaltic sand ripples at Eagle crater as indirect evidence for the hysteresis effect in martian saltation, *Icarus*, 230, 143-50.
27. Renno, N. O., D. Halleaux, H. Elliott, and **J. F. Kok** (2013), The lifting of aerosols and their effects on atmospheric dynamics, in *Comparative Climatology of Terrestrial Planets*, 355 – 67, Eds. S. J. Mackwell et al., University of Arizona Press, Tucson.
26. Pähtz, T, **J. F. Kok**, E. J. R. Parteli, and H. J. Herrmann (2013), Flux saturation length of sediment transport, *Physical Review Letters*, 111, 218002.
25. Zhao, C., S. Chen, L. R. Leung, Y. Qian, **J. F. Kok**, R. Zaveri, and J. Huang (2013), Uncertainty in modeling dust mass balance and radiative forcing from size parameterization, *Atmospheric Chemistry and Physics*, 13, 10733-53.
24. Zhang, L., **J. F. Kok**, D. K. Henze, Q. Li, and C. Zhao (2013), Improving Simulations of Fine Dust Surface Concentrations over the Western United States by Optimizing the Particle Size Distribution, *Geophysical Research Letters*, 40, 3270-5.
23. Nabat, P., F. Solmon, M. Mallet, **J. F. Kok**, and S. Somot (2012), Dust emission size distribution impact on aerosol budget and radiative forcing over the Mediterranean region: a regional climate model approach, *Atmospheric Chemistry and Physics*, 12, 10545-67.
22. **Kok, J. F.**, E. J. R. Parteli, T. I. Michaels, and D. Bou Karam (2012), The physics of wind-blown sand and dust, *Reports on Progress in Physics*, 75, 106901 (72 pp).  Highly Cited Paper
21. Pähtz, T, **J. F. Kok**, and H. J. Herrmann (2012), The apparent roughness of a sand surface blown by wind from an analytical model of saltation, *New Journal of Physics*, 14, 043035.
20. Yizhaq, H., I. Katra, **J. F. Kok**, and O. Isenberg (2012), Transverse instability of megaripples, *Geology*, 40, 459-62.
19. **Kok, J.** (2012), Planetary science: Martian sand blowing in the wind, *Nature*, 485, 312-3.
18. Ito, A., **J. F. Kok**, Y. Feng, and J. E. Penner (2012), Does a theoretical estimation of the dust size distribution at emission suggest more bioavailable iron deposition?, *Geophysical Research Letters*, 39, L05807.
17. **Kok, J. F.** (2011), Does the size distribution of mineral dust aerosols depend on the wind speed at emission?, *Atmospheric Chemistry and Physics*, 11, 10149-56.
16. **Kok, J. F.** (2011), A scaling theory for the size distribution of emitted dust aerosols suggests climate models underestimate the size of the global dust cycle, *Proceedings of the National Academy of Sciences (PNAS)*, 108(3), 1016-21.  Highly Cited Paper
15. Isenberg, O., H. Yizhaq, H. Tsoar, R. Wenkart, A. Karnieli, **J. F. Kok**, and I. Katra (2011), Megaripple flattening due to strong winds, *Geomorphology*, 131, 69-84.
14. Mehta, M., N. O. Renno, J. Marshall, M. R. Grover, A. Sengupta, N. A. Rusche, **J. F. Kok**, R. E. Arvidson, W. J. Markiewicz, M. Lemmon, and P. H. Smith (2011), Explosive erosion during the Phoenix landing exposes subsurface water on Mars, *Icarus*, 211, 172-194.
13. **Kok, J. F.** (2010), An improved parameterization of wind-blown sand flux on Mars that includes the effect of hysteresis, *Geophysical Research Letters*, 37, L12202.
12. **Kok, J. F.** (2010), Difference in wind speeds required for initiation versus continuation of sand transport on Mars: Implications for dunes and dust storms, *Physical Review Letters*, 104, 074502. (Featured on the 2/13/2010 edition of “All Things Considered” on **National Public Radio**)
11. Renno, N. O., ..., **J. F. Kok**, ... (2009), Possible physical and thermodynamical evidence for liquid water at the Phoenix landing site, *Journal of Geophysical Research – Planets*, 114, E00E03.

10. **Kok, J. F.**, and N. O. Renno (2009), A comprehensive numerical model of steady-state saltation (COMSALT), *Journal of Geophysical Research – Atmospheres*, 114, D17204.
9. Ruf, C., N. O. Renno, **J. F. Kok**, E. Bandelier, M. J. Sanders, S. Gross, L. Skjerve, B. Cantor (2009), The emission of non-thermal radiation by a Martian dust storm, *Geophysical Research Letters*, 36, L13202. (This paper was selected as an **American Geophysical Union Journal Highlight**)
8. **Kok, J. F.**, and D. J. Lacks (2009), Electrification of granular systems of identical insulators, *Physical Review E*, 79, 051304.
7. **Kok, J. F.**, and N. O. Renno (2009), Electrification of wind-blown sand on Mars and its implications for atmospheric chemistry, *Geophysical Research Letters*, 36, L05202.
6. Rasmussen, K. R., **J. F. Kok**, and J. P. Merrison (2009), Enhancement in wind driven sand transport by electric fields, *Planetary and Space Science*, 57, 804-808.
5. Renno, N. O., and **J. F. Kok** (2008), Electrical activity and dust lifting on Earth, Mars, and beyond, *Space Science Reviews*, 137(1-4), 419-434.
4. **Kok, J. F.**, and N. O. Renno (2008), Electrostatics in wind-blown sand, *Physical Review Letters*, 100, 014501. (This paper was the subject of a “News & Views” article in **Nature**, 451, 773-4, 2008)
3. **Kok, J. F.**, and N. O. Renno (2008), The effects of electric forces on dust lifting: Preliminary studies with a numerical model, *Journal of Physics Conference Series*, 142, 012047.
2. Renno, N. O., **J. F. Kok**, H. Kirkham, and S. Rogacki (2008), A miniature sensor for electrical field measurements in dusty planetary atmospheres, *Journal of Physics Conference Series*, 142, 012075.
1. **Kok, J. F.**, and N. O. Renno (2006), Enhancement of the emission of mineral dust aerosols by electric forces, *Geophysical Research Letters*, 33, L19S10. (This paper was selected as an **American Geophysical Union Journal Highlight**)

## FUNDED RESEARCH GRANTS

- 2016 CAREER:** The size of the Global Dust Cycle and its Radiative Impact on Climate (1552519), *National Science Foundation (Climate and Large-Scale Dynamics program)*, \$614,523, **PI**, 9/1/2016 – 8/31/2021
- 2015** Fundamental Advances in Predicting Aeolian Transport: Moving Beyond the Fluid Threshold and Precipitation Control Paradigms, *Army Research Office (Earth Sciences Division) W911NF-15-1-0417*, \$398,150 (**PI: Jasper Kok**, co-PI: Gregory Okin)  
 Generation of dust from active aeolian sand dunes, *United States – Israel Binational Science Foundation*, \$71,675 (**PIs: Jasper Kok** and Itzhak Katra)  
 Research Experiences for Undergraduates (REU) supplement to NSF AGS 1358621, \$10,374 (**PI: Jasper Kok**)
- 2014** Collaborative Research: From Turbulence to Weather and Climate: Unraveling the Multi-scale Nature of Dust and Sand Transport in the Atmospheric Boundary Layer (1358621), *National Science Foundation (Physical and Dynamical Meteorology program)*, \$344,270 (**PIs: Jasper Kok** and Marcelo Chamecki).  
 Aeolian sediment transport and landscape modification on Titan, *NASA Outer Planets Research*, \$70,826 (PI: Nathan Bridges; co-Is: Devon Burr, **Jasper Kok**, John Marshall, Claire Newman)
- 2013** Accounting for turbulent effects to improve prediction of sand and dust transport by wind, *NSF Earth Sciences Postdoctoral Fellowship*, \$170,000 (PI: Raleigh Martin; **hosting scientist: Jasper Kok**)

- 2011** Estimating the dust climate feedback by developing and using an improved parameterization of dust aerosol emission, *NSF Atmospheric and Geospace Sciences Postdoctoral Fellowship*, \$172,000 (**PI: Jasper Kok**; hosting scientist: Natalie M. Mahowald at Cornell University).

### **SUPERVISED GRADUATE STUDENTS AND POSTDOCTORAL SCHOLARS**

- Min (Danny) Leung, AOS department PhD student, starting in Fall 2018
- Adeyemi Adebisi, Postdoctoral Scholar, 2017 - current
- Francesco Comola, Visiting PhD student, École Polytechnique Fédérale de Lausanne, 2016
  - *Returning as Swiss National Science Foundation Postdoctoral Mobility Fellow in Summer 2018*
- Francis Turney, AOS department PhD student, Spring 2016 – current
  - *Received an NSF Graduate Research Fellowship (2017 – 2020)*
- Yue Huang, AOS department PhD student, Fall 2015 - current
- Raleigh Martin, Postdoctoral Scholar, Fall 2013 – current
  - *Received an NSF Postdoctoral Research Fellowship (2013 – 2015)*
- Peter (Guan) Li, AOS department, M. Sc., 2014

### **SUPERVISED UNDERGRADUATE STUDENTS**

- Kaylie Cohanin, AOS/Math major, Spring 2018 - current
- Yuheng Zhang, Summer undergraduate researcher from University of Science and Technology, Summer 2018
- Yingxiao Zhang, Summer undergraduate researcher from Nanjing University, Summer 2018
- Yang (Kitty) Wang, AOS/Math major, Winter 2018 - current
- Chloe Whicker, IoES major, Winter 2018 - current
- Miye Nakashima, Math major, Spring – Summer 2017
- Kenyon Chow, IoES major, Winter – Summer 2016
- John Santiago, UCLA/SMC Summer Scholars Research Program, Summer 2015
- Francis Turney, AOS major, Fall 2014 – Winter 2016
- Olivia Miller, AOS major, Fall 2014
- Jessica De Guzman Canet, EPSS major, Fall 2014 – Winter 2015

### **TEACHING (student reviews average around 8.5/9)**

- A&OS 90 – Introduction to undergraduate research in the atmospheric and oceanic sciences (Winter 2018)
- A&OS 101 – Fundamentals of Atmospheric Dynamics and Thermodynamics (Winter 2014, 2015; Fall 2015, 2016, 2017, 2018)
- A&OS 144/222 – The Atmospheric Boundary Layer (Spring 2014, 2015, Winter 2017)
- A&OS 200A – Introduction to Atmospheric and Oceanic Fluids (Fall 2015)

### **INVITED SEMINARS AND CONFERENCE PRESENTATIONS**

- 2018** International Conference on Aeolian Research, Bordeaux, France  
 NASA's Goddard Space Flight Center, Greenbelt, MD  
 American Meteorological Society Annual Meeting, Austin, TX
- 2017** Workshop on Dust Emission, Chemistry & Transport, University of Notre Dame, IL  
 University of California, Santa Barbara, CA  
 University of Washington, Seattle, CA  
 Jet Propulsion Laboratory, California, CA

- California Institute of Technology, California, CA
- 2016** American Geophysical Union Fall Meeting, San Francisco, CA  
Geological Society of America annual meeting, Denver, CO
- 2015** Conference on Airborne Dust, Climate Change, and Human Health, Miami, FL  
Texas A&M University, Department of Atmospheric Sciences / Department of Geology & Geophysics  
American Meteorological Society Annual Meeting, Phoenix, AZ
- 2014** University of California – San Diego, Atmospheric Sciences, and Physical Oceanography  
Chapman University, Science Forum Series, Orange, CA
- 2013** Kavli conference on Particle-Laden Flows in Nature, Santa Barbara, CA  
Workshop on Airborne Mineral Dust Contaminants: Impacts on Human Health and the Environment, University of Arizona, Tucson, AZ  
European Geophysical Union General Assembly, Vienna, Austria
- 2012** American Geophysical Union Fall Meeting, San Francisco, CA  
Pennsylvania State University, Department of Meteorology  
University of Illinois at Urbana – Champaign, Atmospheric and Oceanic Sciences  
McGill University, Atmospheric and Oceanic Sciences  
University of California – Los Angeles, Atmospheric and Oceanic Sciences Seminar
- 2011** American Geophysical Union Fall Meeting, San Francisco, CA  
University of California – Irvine, Earth System Sciences Seminar  
Minerva Gentner Symposium on Aeolian Processes, Ben-Gurion University, Israel  
Gordon Research Conference on Radiation & Climate, Colby College, Waterville, ME  
NSF review of the NCAR Earth System Laboratory (NESL), NCAR, Boulder, CO  
University of Colorado – Boulder, JILA seminar
- 2010** Southwest Research Institute, Boulder, CO.
- 2009** American Geophysical Union Fall Meeting, San Francisco, CA  
International Symposium on Multi-Phase Flow in the Atmospheric Boundary Layer, Lanzhou University, China.  
Conference on electrification of water drops and ice particles, Telluride, Colorado.  
ETH Zurich, Comphys-Group seminar, Switzerland.

## PROFESSIONAL AND COMMUNITY SERVICE

- Chair:** Undergraduate committee, Atmospheric and Oceanic Sciences (UCLA)
- Member:** American Geophysical Union, European Geosciences Union, American Physical Society, American Meteorological Society
- Journal Reviewer:** Aeolian Research; Applied Physics Letters; Atmospheric Chemistry and Physics; Atmospheric Environment; Boundary-Layer Meteorology; Climate Dynamics; Earth Surface Processes and Landforms; Environmental Research Letters; European Physical Journal E; Geografiska Annaler: Series A, Physical Geography; Geomorphology; Geophysical Research Letters; Geoscientific Model Development; Icarus; International Journal of Multiphase Flow; Journal of Climate; Journal of Geophysical Research – Atmospheres; Journal of Geophysical Research – Planets; Mars Journal; Nature; Nature Geoscience; Nature Communications; New Journal of Physics; Proceedings of the National Academy of Sciences (PNAS), Quarterly Journal of the Royal Meteorological Society; Physical Review E; Physical Review Letters; Sedimentary Geology; Space Science Reviews
- Proposal** Israeli Science Foundation; Mars Fundamental Research Program (NASA); Moon

**Reviewer:** Mars Analog Mission Activities Program (NASA); AGS - Climate & Large-scale Dynamics (NSF); AGS – Physical and Dynamical Meteorology (NSF); AGS – Atmospheric Chemistry (NSF); BCS - Geography & Spatial Sciences (NSF); Frontiers in Earth System Dynamics (NSF); EAR - Instrumentation & Facilities (NSF); EAR – Geomorphology (NSF); AGU Chapman conferences

**Miscellaneous:** Outstanding student paper reviewer for AGU and EGU

Founding convener of the recurring session “Mineral Dust Aerosols: From Small-Scale Insights to Large-Scale Understanding” at Fall Meetings of the American Geophysical Union.

Co-convener of the 2018 AGU Fall Meeting session “Multi-sensor, Model, and Measurement Synergy: Aerosol Sources and Their Environmental Effects”