Soroush E. Neyestani

Curriculum Vitae

Department of Environmental Sciences University of California, Riverside Riverside, CA 92507 soroushe@ucr.edu

Research Interests		
Air quality and climate modeling	Atmospheric radiation	
 Atmospheric aerosols 	 Geospatial data analysis 	
Education		
Ph.D., Engineering University of Georgia Advisor: Rawad Saleh		2017 - 2021
M.Sc., Environmental Engineering - Air Pollutio University of Tehran Advisor: Khosro Ashrafi & Majid Shafie		2013 - 2016
B.Sc., Mining Engineering - Extraction Azad University - South Tehran		2007 - 2012
Research Experience		
Postdoctoral Scholar Department of Environmental Sciences University of California, Riverside		2021 -
Graduate Research Assistant College of Engineering, University of Geo Projects: (1) I modified emission invent vehicles' direct radiative effect and attrib using WRF-Chem. (2) I added a param light absorption to WRF-Chem and eva during a biomass burning event.	tory then calculated gasoline butable fraction over the U.S. eterization for brown carbon	2017 - 2021
NASA DEVELOP Intern NASA DEVELOP node (Georgia, US) Project: Water turbidity and sea surfactory over Golfo Dulce in Costa Rica using Aqu	·	2018 (Fall)
Graduate Researcher Graduate Faculty of Environment, University Project: I detected (MODIS/AIRS) dust and simulated (WRF-Chem) the effect of	storms over the Middle East	2013 - 2016

Teaching Experience	
Teaching Assistant College of Engineering, University of Georgia Course: Air pollution engineering	2021 (Spr.) 2020 (Spr.)
Honors and Awards	
Excellence in graduate research award College of Engineering, University of Georgia	2020
4.5 million (IR) Rials grant to pursue M.Sc. degree Graduate Faculty of Environment, University of Tehran	2016
Top 5% in civil/environmental engineering national graduate entrance exam	2013

Skills

- Regional climate models (WRF-Chem)
- Emission models (SMOKE)
- Programming languages (Fortran, MATLAB, Python, and NCL)
- Geospatial data analysis (QGIS & GEE)
- LATEX typesetting system
- Unix based operating systems

Memberships

American Meteorological Society (AMS)

American Geophysical Union (AGU)

Selected Graduate Courses

Engineering Mathematics, Computational Engineering, Advanced Fluid Mechanics, Aerosol Science and Engineering, Atmospheric Aerosols, Atmospheric Chemistry, Air Quality Modeling, Air Pollution Meteorology, Climatology.

Publications

- Islam, M.; Neyestani, S. E.; Saleh, R.; Grieshop, A. P., Quantifying brown carbon light absorption in real-world biofuel combustion emissions. *Aerosol Science and Technology*. Submitted.
- Neyestani, S. E.; Saleh, R., Observationally constrained representation of brown carbon emissions from wildfires in a chemical transport model. *Environmental Science: Atmospheres*. Submitted.
- Neyestani, S. E.; Walters, S.; Pfister, G.; Kooperman, G. J.; Saleh, R., Direct Radiative Effect and Public Health Implications of Aerosol Emissions Associated with Shifting to Gasoline Direct-Injection (GDI) Technologies in Light-duty Vehicles in the United States. *Environmental Science & Technology* 2020, 54 (2), 687-696. doi:10.1021/acs.est.9b04115.
- Ashrafi, K.; Motlagh, M. S.; Neyestani, S. E., Dust storms modeling and their impacts on air quality and radiation budget over Iran using WRF-Chem. Air Quality Atmosphere and Health 2017, 10 (9), 1059-1076. doi:10.1007/s11869-017-0494-8.

Conference Presentations

- AAAR 37th Annual Conference (talk). *Portland, OR.* October 2019.
- 10th International Aerosol Conference (poster). St. Louise, MO. September, 2018.

Seminars

- Graduate seminar course at the University of Georgia. Athens, GA. April 2020.
- Riverbend research highlight seminar at the University of Georgia. Athens, GA. June 2019.

Media Coverage

- Obama helped make cars more efficient, but now they spew black carbon. Grist, February 2020.
- Fuel efficient tech may threaten climate, public health. *Eurekalert*, January 2020.

Last updated: Aug. 2021