



Kiran Bhaganagar, PHD

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PROFESSOR OF MECHANICAL ENGINEERING

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EDUCATION

PhD	Cornell University, Sibley School of Mechanical & Aerospace Engineering, Ithaca, New York, <i>Mechanical Engineering</i> Advisor: Dr. John Lumley	2001
BS	College of Engineering, Osmania University, Hyderabad, Andhra Pradesh, India, <i>Mechanical Engineering</i>	1994

APPOINTMENTS

Professor	The University of Texas at San Antonio, <i>Department of Mechanical Engineering</i>	2021-Present
Associate Professor		2015-2021
Assistant Professor		2009-2015
Director (Principal Investigator)	NASA Miro Center for Advanced Measurements in Extreme Events at UTSA (CAMEE)	2021-2022
Core Faculty		2019-2022
Assistant Research Scientist	University of Michigan, <i>Ann Arbor, MI</i> <i>Atmospherics, Oceanic and Space Sciences (AOSS)</i>	2008-2009
Assistant Professor	University of Maine, <i>Orono, Maine</i> , Department of Mechanical Engineering	2004-2008
Postdoctoral Researcher	University of California, Los Angeles, <i>California</i> (UCLA) Mechanical Engineering, Atmospheric Sciences Advisors: Dr. John Kim (2001-2003) and Dr. Bjorn Stevens (2003-2004)	2001-2004

Areas of Expertise: Turbulence simulations including DNS and LES using immersed boundary method, Buoyancy-driven turbulent flows, WRF-LES simulations, Buoyant plumes, Wind Energy simulations, High-performance computing and data analytics of turbulent flows, Rough-wall turbulent flow, Unsteady flow over complex surfaces, Atmospheric boundary layer flows and atmospheric dispersion, Oceanic density current flows, Aerodynamics, multimodal static and mobile sensing using unmanned aerial/ground vehicle coordination, Data Driven Model Development.

<https://www.researchgate.net/profile/Kiran-Bhaganagar/research>

RESEARCH IMPACT AND PRESS COVERAGE

- NASA CAMEE in SA Express-News: Front page
 - <https://www.expressnews.com/business/article/UTSA-space-exploration-17054413.php>

- *Societal Importance of the Work from TV News Coverage:*
 - <https://www.ksat.com/news/local/2020/09/30/utsa-study-shows-airborne-coronavirus-particles-could-travel-more-than-a-mile/>

- Using Supercomputers to Predict Dispersal of Chemicals and Pollutants

 - <https://www.technologynetworks.com/informatics/articles/using-supercomputers-to-predict-dispersal-of-chemicals-and-pollutants-311834>

- Preparing for chemical attacks with improved computer models
 - https://www.eurekaalert.org/pub_releases/2018-08/uota-pfc082118.php