

**Ankur R Desai**, Associate Professor  
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### **BIOGRAPHY**

Ankur Desai is an atmospheric scientist who investigates how space and time scales influence ecosystem exchanges of greenhouse gases, energy, and momentum with the atmosphere. These investigations include field-based measurements such as eddy covariance flux towers and atmospheric boundary layer budgets, in addition to computational numerical simulation of ecosystem dynamics and the atmosphere. By merging what we learn from experiments and models at multiple spatiotemporal scales with formal and informal data assimilation approaches, Desai, through his research, teaching, and outreach has advanced our understanding of how past, present, and future changes in climate, land use, and other anthropogenic pressures affect ecosystems and feed back onto climate change. He has authored more than 80 peer-reviewed papers, in journals published by AMS, AGU, Nature, and elsewhere, advises students in several graduate programs, and teaches courses on surface-atmosphere processes and climate.

### **PROFESSIONAL PREPARATION**

Pennsylvania State University, Ph.D., Meteorology, 2006  
University of Minnesota, M.A., Geography, 2000  
Oberlin College, B.A., Environmental Studies and Computer Science (double major), 1997

### **APPOINTMENTS**

2014 MICMoR Visiting Scientist, KIT IMK-IFU, Garmisch-Partenkirchen, Germany  
2011- Associate Professor and Associate Chair (Graduate Program)  
Dept. of Atmospheric & Oceanic Sciences, U. Wisconsin-Madison  
2009- Faculty affiliate, Freshwater and Marine Sciences, College of Engineering  
2008- Faculty affiliate, Center for Climatic Research, Nelson Institute  
2007-2011 Assistant Professor, Dept. of Atmospheric & Oceanic Sciences, U. Wisconsin  
2006-2007 Postdoctoral Fellow, Advanced Study Program, NCAR  
2002-2006 Graduate Research Assistant, Dept. of Meteorology, Pennsylvania State U.  
2000-2001 Research Fellow, Dept. of Forest Resources, University of Minnesota  
1998-2000 ICGC MacArthur Scholar Fellow, Dept. of Geography, University of Minnesota

### **AWARDS**

- MICMoR Visiting Scientist Fellowship, Karlsruhe Institute of Technology, Germany, 2013-2014
- UW Atmospheric & Oceanic Sciences Graduate Student Association Teaching Award, 2010, 2012
- World Meteorological Organization, Norbert-Gerbiel-MUMM International Award 2012, presented to C. Yi et al., including A.R. Desai, for best publication (Yi et al., 2011, ERL)
- University Corporation for Atmospheric Research, NCAR Advanced Study Program Fellowship, 2006-2007
- Pennsylvania Space Grant Consortium, NASA Space Grant Fellowship, 2005-2006
- University of Minnesota Interdisciplinary Center for the Study of Global Change, ICGC Scholars Fellowship, sponsored by John D. and Catherine T. MacArthur Foundation, 1998-2000

### **PROFESSIONAL ACTIVITIES**

- Committee chair, American Meteorology Society (AMS), Agricultural and Forest Meteorology Science and Technical Advisory Committee (STAC), 2010-2015
- Committee member, American Meteorology Society (AMS), Board on Atmospheric Biogeosciences, 2008-2011
- Program co-chair of first joint AMS Agricultural and Forest Meteorology and Atmospheric Biogeosciences Conference, Boston, MA, 2012

- Editor, Journal of Geophysical Research, Biogeosciences, Associate, 2011-2014, Editor, 2015-2018
- Editorial board, Agricultural and Forest Meteorology, Sept 2010-
- Panelist, NCAR/NSF Observing Facilities Assessment Panel, Sep 2012-May 2017
- Chair, Flux and Micromet Data Quality advisory working groups, Fundamental Instrument Unit (FIU), National Ecological Observatory Network, Inc., 2009-
- Member, North American Carbon Program (NACP) Science Steering Group (SSG), 2010-2015
- Lead instructor and manager, Forest and Climate Leaders in Menominee and the Environment (FOR-CLIMATE), NSF-support field-based outreach course for Native American students at tribal college and high school level, 2010-2013
- UW Dept of Atmospheric and Oceanic Sciences Graduate Program Chair, 2011-2013, 2014-

#### **ORGANIZED WORKSHOPS**

- On the Cutting Edge: Preparing for an Academic Career in the Geosciences, **co-convener**, Madison, WI, 31 May-3 June 2015
- Advancing the science of gas exchange between fresh waters and the atmosphere, **co-organizer**, breakout session lead, Hyytiälä, Finland, 15-19 Sept 2014
- MICMoR PhD Summer School 2014: Examining Mountain Ecosystems in Regional to Global Environments of Carbon-cycling and Climate (EMERGE-CC), **lead organizer**, lecturer, field trip coordinator, Garmisch-Partenkirchen, Germany, 21-30 July 2014
- University of Helsinki, The importance of land-atmosphere fluxes of methane and nitrous oxide for the global greenhouse-gas balance, participant, Hyytiälä Finland, 2-7 Sept 2012
- NSF, Summer Graduate Course on Flux Measurements and Advanced Modeling, **invited lecturer and co-organizer**, Niwot Ridge LTER, Nederland, CO, Jul 2008, 2009, 2010, 2012, 2013, 2015
- AMS Short Course: Wind Energy Applications, Supported by Atmospheric Boundary Layer Theory, Observations, and Modeling, participant, Keystone, CO, 1 Aug 2010
- NCAR/IMAGe, Summer Graduate Workshop on Data Assimilation for the Carbon Cycle, selected participant, Boulder, CO, Jul. 2007
- NCAR/ASP Summer Graduate Student Colloquium, Regional Biogeochemistry: Needs and Methodologies, **lead organizer**, Boulder, CO, Jun. 2007
- Max Planck Institute for Biogeochemistry, Gap filling Comparison Workshop, Jena, Germany, invited collaborator, Sep. 2006
- NCAR/MMM, Turbulence and Scalar Transport in Roughness Sublayers, participant, Boulder, CO, Sep. 2006

#### **SOCIETY MEMBERSHIP**

- American Meteorological Society (2002-), American Geophysical Union (2002-), American Association of Geographers (1998-2009)

#### **GRADUATE AND POST-DOCTORAL ADVISORS (3)**

David S. Schimel, National Center for Atmospheric Research (now at NASA JPL) (Postdoctoral mentor); Kenneth J Davis, Pennsylvania State University (Ph.D. advisor); Howard Veregin, Wisconsin State Cartographer's Office, formerly University of Minnesota – Twin Cities (M.A. advisor)

#### **POSTDOCTORAL SCHOLARS SPONSORED (4)**

Bjorn Brooks (2009-2011, forester at USFS Asheville), Dong Hua (2012-2013, now in IT in Rochester, MN), Shawn Serbin (2012-2013, scientist at DOE BNL), David Reed (2015-, NSF AGS fellow)

#### **GRADUATE STUDENTS ADVISED (10)**

Justin Bagley (Ph.D. 2011, postdoc at DOE LBNL), Ben Sulman (Ph.D. 2012, postdoc at Indiana + GFDL), Kristine Jimenez (N.D. 2011, lab manager at U Cincinnati), Will Ahue (M.S. 2010, forecaster at NWS Portland), Ruben Behnke (M.S. 2010, student at U Montana), Matt Rydzik (M.S. 2012, modeler at Commodity Weather Group), Sean DuBois (M.S. 2015, researcher at UW Forest Ecology), Malgorzata Golub (current Ph.D. student), Tommy Jasmin (current M.S. student), Ke Xu (current Ph.D. student), James Simkins (current Ph.D. student) + ~30 graduate thesis committees in > 10 depts. at 4 universities