

**Gouri Prabhakar**  
Assistant Professor of Practice  
Earth, Atmospheric, and Planetary Sciences  
Purdue University  
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## **Education**

**Ph.D., Atmospheric Sciences** with a minor in Global Change, August 2014

University of Arizona, Tucson, AZ

*Dissertation: Characteristics of Regional Aerosols: Southern Arizona and Eastern Pacific Ocean*

**M.S., Atmospheric Sciences**, May 2012

University of Arizona, Tucson, AZ

*Thesis: Effect of urban growth on aerosol optical depth – Tucson, AZ 35 years later*

**M.S., Physics** specialization in Atomic, Molecular and Optical Physics, May 2007

Bangalore University, Bangalore, India

**B.Sc., Physics, Chemistry and Mathematics** (triple major), May 2005

St. Joseph's College (affiliated to Bangalore University), Bangalore, India

## **Research Experience**

**Assistant Professor of Practice**

**Present**

Department of Earth, Atmospheric, and Planetary Sciences, Purdue University, West Lafayette

**Research Affiliate**

**2017 – 2019**

Christopher Cappa (Ph. D.), Department of Civil and Environmental Engineering, University of California, Davis

**Post-Doctoral Researcher**

**2014 – 2017**

Christopher Cappa (Ph. D.), Department of Civil and Environmental Engineering, University of California, Davis

**Graduate Research Assistant**

**2012 – 2014**

Armin Sorooshian (Ph. D.), Department of Atmospheric Sciences, University of Arizona

**Graduate Research Assistant**

**2009 – 2012**

Eric Betterton (Ph.D.) and William Conant (Ph.D.), Department of Atmospheric Sciences, University of Arizona

**Independent Research Project**                      **2006 – 2007**

Sharath Ananthamurthy (Ph. D.), Department of Physics, Bangalore University, India

**Teaching Experience****Graduate Teaching Assistant**                      **2009 – 2012**

Department of Atmospheric Sciences

**Lecturer in Physics**                                      **2007 – 2008**

National College (affiliated to Bangalore University), Bangalore, India

**Publications**

- Armin Sorooshian, Alexander B. MacDonald, Hossein Dadashazar, Kelvin H. Bates, Matthew M. Coggon, Jill S. Craven, Ewan Crosbie, Scott P. Hersey, Natasha Hodas, Jack J. Lin, Arnoldo Negron Marty, Lindsay C. Maudlin, Andrew R. Metcalf, Shane M. Murphy, **Gouri Prabhakar**, Tracey A. Rissman, Taylor Shingler, Varuntida Varutbangkul, Zhen Wang, Roy K. Woods, Patrick Y. Chuang, Athanasios Nenes, Haflidi H. Jonsson, Richard C. Flagan and John H. Seinfeld (2018): A multi-year data set on aerosol-cloud-precipitation-meteorology interactions for marine stratocumulus clouds, *Sci. Data*, doi: 10.1038/sdata.2018.26
- **Gouri Prabhakar**, Caroline Parworth, Xiaolu Zhang, Hwajin Kim, Dominique Young, Andreas J. Beyersdorf, Luke D. Ziemba, John B. Nowak, Timothy H. Bertram, Ian C. Faloon, Qi Zhang and Christopher D. Cappa (2017): Observational assessment of the role of nocturnal residual-layer chemistry in determining daytime surface particulate nitrate concentrations, *Atmos. Chem. Phys.*, doi: 10.5194/acp-17-14747-2017
- A. Sorooshian, **G. Prabhakar**, H. Jonsson, R. K. Woods, R. C. Flagan and J. H. Seinfeld (2015): On the presence of giant particles downwind of ships in the marine boundary layer, *Geophys. Res. Lett.*, doi: 10.1002/2015GL063179
- **Gouri Prabhakar**, Armin Sorooshian, Emily Toffol, Avelino F. Arellano and Eric Betterton (2014): Spatiotemporal distribution of airborne particulate metals and metalloids in a populated arid region, *Atmos. Environ.*, 92, 339 – 347, doi: 10.1016/j.atmosenv.2014.04.044
- **Gouri Prabhakar**, B. Ervens, Z. Wang, L. Maudlin, M. M. Coggon, H. H. Jonsson, J. H. Seinfeld and A. Sorooshian (2014): Sources of nitrate in stratocumulus cloud water: Airborne measurements during the 2011 E-PEACE and 2013 NiCE studies (2014): *Atmos. Env.*, 97, 166 – 173, doi: 10.1016/j.atmosenv.2014.08.019
- **Gouri Prabhakar**, E. A. Betterton, W. Conant and B. M. Herman, Effect of urban growth on aerosol optical depth – Tucson, AZ, 35 years later (2014) *Journal of Applied Meteorology and Climatology*, 53, 1876 – 1885, doi: 10.1175/JAMC-D-14-0001.1
- Z. Wang, A. Sorooshian, **G. Prabhakar**, M. M. Coggon and H. H. Jonsson (2014): Impact of emissions from shipping, land, and the ocean on stratocumulus cloud water elemental composition during the 2011 E-PEACE Field Campaign, *Atmospheric Environment*, doi:10.1016/j.atmosenv.2014.01.020

**Awards/Scholarships**

Graduate Professional Support Council Travel Grant, August 2013, University of Arizona.

Herbert E. Carter Travel Award, University of Arizona

College of Science Galileo Circle Scholarship 2012, University of Arizona.

College of Science Graduate Student Award for Exceptional Teaching 2011, University of Arizona

Space science fellowship program sponsored by the Indian Space Research Organization, 2002.

### **Service**

Volunteer at the Lawrence Hall of Science, Berkeley, 2017 July to Present

Member of Green Keepers – an organization dedicated to community service with a focus on environmental activities, September 2013 to 2014

Served as chair of editorial committee, Atmospheric and Interdisciplinary Research Conference, 2012 and 2013