

Sidhant Pai

Atmospheric Chemistry and Composition Modeling Group

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Education **S.M. / Ph.D. Atmospheric Physics and Chemistry.**
2017 – Present | Advisor: Colette Heald | Massachusetts Institute of Technology

S.B. Environmental Engineering Science.
2010 – 2014 | Massachusetts Institute of Technology

Research

- Aerosol-Climate Interactions.
- Atmospheric Impacts of Changing Land-Use Patterns.
- Regional Air Pollution.

My research focuses on modeling the impacts of anthropogenic emissions and changing land-use patterns at regional and global scales. I am particularly interested in research that informs policy decisions on air pollution, land-use and climate change mitigation in the developing world.

Experience **Co-Founder and Director, Social Seva Initiatives**
February 2014 – Present | www.socialseva.org
Social Seva is a Section 25 Non-Profit based in India. Our work is project based and focuses on technology solutions within the social and environmental space. Current projects focus on environmental monitoring networks, online education tools and inclusive recycling solutions.

Co-Founder and CEO, Protoprint
June 2012 – June 2016 | www.protoprint.in
Protoprint is a social enterprise that works collaboratively with urban waste picker co-operatives in India, using low-cost technology to convert waste plastic into 3D printer filament.

Publications Kroll, J.H., E.S. Cross, J.F. Hunter, **S. Pai**, TREX XII, TREX XI, L.M.M. Wallace, P.L. Croteau, J.T. Jayne, D.R. Worsnop, C.L. Heald, J.G. Murphy, S.L. Frankel (2015), Atmospheric evolution of volcanic smog "vog" from Kilauea: Real-time measurements of oxidation, dilution, and neutralization within a volcanic plume, Environ. Sci. Tech., 49, 4129-4137, doi:10.1021/es506119x. [PDF](#)

Distinctions

- Echoing Green Fellow (2014-2016)
- D-Lab Fellow (2014-2015)
- Legatum Fellow (2013 – 2014)
- MIT IDEAS Awardee (2014)
- Chi Epsilon National Honor Society (MIT Chapter)

Programming & Analysis Tools R, Python, MATLAB, Java, IgorPro.
