

# Divyansh Chug

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## Curriculum Vitae

### Academic Interests

Primary : Land-Atmosphere Interactions, Eco-hydro-climatology  
Additional : Climate Variability, Surface Hydrology, Terrestrial Remote Sensing

### Education

- 2018- **Ph.D., Atmospheric Science and Meteorology**  
University of Illinois at Urbana Champaign  
GPA: 3.89/4.00
- 2016-18 **M.S., Atmospheric Science and Meteorology**  
University of Illinois at Urbana Champaign  
GPA: 3.84/4.00
- 2012-16 **B.Tech., Civil Engineering**  
Indian Institute of Technology Bombay (India)  
CGPA: 8.17/10.00

### Publications

1. **Chug, D.** and Dominguez, F., 2019: Isolating the Observed Influence of Vegetation Variability on the Climate of La Plata River Basin, *Journal of Climate*, **32**, 4473-4490.
2. Eiras-Barca, J., Dominguez, F., Yang, Z., **Chug, D.**, Nieto, R., Gimeno, L. and Miguez-Macho, G. (2020), Changes in South American hydroclimate under projected Amazonian deforestation. *Ann. N.Y. Acad. Sci.* doi:10.1111/nyas.14364
3. **Chug, D.**, Pathak, A., Indu, J., Jain, Sh., Jain, Sa., Dimri, A., Niyogi, D., and Ghosh, S., 2020: Observed Evidence for Steep Rise in the Extreme Flow of Western Himalayan Rivers, *Geophysical Research Letters* (accepted)

### Grants and Awards

- Oct 2019 **Best Poster: 3<sup>rd</sup> Midwest Student Conference for Atmospheric Research, Urbana, IL**  
Isolating the Influence of Land Surface Variability on the Climate of Southeastern South America
- Jun 2019 **Future Investigators in NASA Earth and Space Science and Technology (FINESST)-2019**  
Awarded three years of funding for doctoral research on the topic – 'Isolating the Influence of Land Surface Variability and Change on the Climate of Southeastern South America'

### Conference Talks

- Dec 2019 **American Geophysical Union Fall Meeting 2019, San Francisco, CA**  
Isolating the Influence of Land Surface Variability of La Plata River Basin on the Climate of Subtropical South America
- Oct 2019 **3<sup>rd</sup> Midwest Student Conference for Atmospheric Research, Urbana, IL**  
Isolating the Influence of Land Surface Variability on the Climate of Southeastern South America
- Jan 2019 **99<sup>th</sup> American Meteorology Society Annual Meeting, Phoenix, AZ**  
Oral – Isolating the Influence of Vegetation Variability and Change on the Climate of La Plata Basin
- Jan 2018 **98<sup>th</sup> American Meteorology Society Annual Meeting, Austin, TX**  
Oral – Observed Influence of Vegetation Variability and Change on Climate of South America
- Mar 2018 **2018 School of Earth Society and Environment Research Review, Urbana, IL**

### Thesis

- 2016-18 **Observed Influence of Vegetation Variability and Change on Climate of South America**  
Master's thesis, Department of Atmospheric Science, University of Illinois  
Guided by : Prof. Francina Dominguez

2015-16 **Doubling of Extreme Flow in Western Himalayan Rivers**  
Bachelor's thesis, Civil Engineering Department, IIT Bombay  
Guided by : Prof. J. Indu and Prof. Subimal Ghosh

### Summer Research and Internships

Summer 2015 **Detection of Atmospheric Rivers in Western Himalayan Region**  
Civil Engineering Department, IIT Bombay  
Guided by : Prof. Subimal Ghosh  
Developed an algorithm for detection of atmospheric rivers from reanalysis data.

Summer 2014 **Statistical Relationship of ENSO with Indian Summer Monsoon using Multivariate Pathways**  
Civil Engineering Department, IIT Bombay  
Guided by : Prof. Subimal Ghosh  
Developed a process tree for Path Analysis using the Mutual Information statistics.

Summer 2013 **Marketing & Brand Manager, Weekend Ventures Foundation (NASSCOM)**  
Coordinated with 5 executive heads and conducted 54-hour long hackathons catering 250+ entrepreneurs to launch 30 start-ups spread over 4 major cities of India.

### Leadership and Innovation

In progress **Co-chair, 4<sup>th</sup> Midwest Student Conference on Atmospheric Research**  
Responsible for organizing the 4<sup>th</sup> edition of MSCAR at the University of Illinois. The previous edition saw 100 registrants from over 10 schools across the U.S. Midwest.

In progress **Graduate Mentor, Dept. of Atmospheric Sciences, Univ. of Illinois**  
Responsible for providing guidance and answering professional and/or personal questions regarding academic and career choices of undergraduate students.

2015-16 **Overall Coordinator, The Entrepreneurship Cell IIT Bombay**  
Spearheaded a 3-tier organization of 20 managers and 800 volunteers, managed cash and media budget of INR 18 million, to execute 2 international, 4 pan-India and 20 institute-wide activities with the sole purpose of entrepreneurship development.

2014-15 **Co-founder, Sprouts Electronics**  
Won the Spark-up Idea Fund program by ICreate to raise non-dilution fund of INR 50,000 for product development. Built the prototype of an HD, plug & play projector at a mere 30% of market sale value for similar quality product. Tested business model hypotheses on 15 target clients and 50+ likely end users and forecast costs for break-even.

### Technical Skills

**Data Analysis and Interpretation** Python, MATLAB, GIS, NCL  
**Multimedia** Adobe Photoshop, Illustrator, AfterEffects