

Dr. Vikram Goel

CONTACT INFORMATION	National Center for Polar & Ocean Research, 8076-837-687 Headland Sada, Vasco Da Gama, Goa 403804 vikram.goel@outlook.com ORCID: 0000-0002-8393-0195
RESEARCH INTERESTS	Glaciology, ice rises, ice-penetrating radar (GPR), GNSS, ice-flow modelling
EDUCATION	<p>University of Oslo, Oslo, Norway</p> <p>Ph.D., Antarctic glaciology, June 2019</p> <ul style="list-style-type: none"> • Thesis Topic: <i>Current status and past changes of ice rises in Dronning Maud Land, Antarctica</i> • Advisors: Kenichi Matsuoka, Jon Ove Hagen and Thamban Meloth <p>Indian Institute of Technology Kharagpur, Kharagpur, WB, India</p> <p>M.Tech., Earth System Science & Technology, May 2013</p> <ul style="list-style-type: none"> • Thesis Topic: <i>Application of mid-latitude postfrontal shower characteristics to adverse weather avoidance model in aviation</i> • Advisors: Thomas Hauf, and M K Dash <p>University of Petroleum and Energy Studies, Dehradun, UK, India</p> <p>B.Tech., Aerospace Engineering, May 2011</p> <ul style="list-style-type: none"> • Thesis Topic: <i>Analysis of advanced deep space propulsion techniques</i> • Advisors: Ugur Guven
RESEARCH EXPERIENCE	<p>National Center for Polar & Ocean Research, Headland Sada, Vasco Da Gama, India Apr 2018 to Present</p> <p>Project Scientist - B</p> <ul style="list-style-type: none"> • Participated in the third field expedition to Dronning Maud Land Antarctica as a part of the MADICE project. <p>Norwegian Polar Institute, Tromsø, Norway Apr 2014 to Aug 2017</p> <p>Ph.D. Student</p> <ul style="list-style-type: none"> • Participated in the field work to Dronning Maud Land Antarctica • Analyzed field data incl. radar, GPS to obtain robust mass balance estimate of an ice rise • Working with Elmer/ICE numerical model to investigate past ice flow changes Supervisor: Kenichi Matsuoka <p>Leibniz University Hannover, Hannover, Germany Sep 2012 to Mar 2013</p> <p>Masters Student</p> <ul style="list-style-type: none"> • Studied the safety and efficiency relationship for an adverse weather avoidance model in aviation for mid-latitude postfrontal showers Supervisor: Thomas Hauf <p>University of Massachusetts Dartmouth, MA, USA Jun 2012 to Jul 2012</p> <p>Masters Intern</p> <ul style="list-style-type: none"> • Worked on enhanced web availability of satellite derived SST data for western North Atlantic Ocean for local fishermen Supervisor: James J. Bisagni

- JOURNAL PUBLICATIONS
1. Morlighem, M., Rignot, E., Binder, T., Blankenship, D., Drews, R., Eagles, G., Eisen, O., Ferraccioli, F., Forsberg, R., Fretwell, P., **Goel, V.**, Greenbaum, J.S., Gudmundsson, H., Guo, J., Helm, V., Hofstede, C., Howat, I., Humbert, A., Jokat, W., Karlsson, N.B., Lee, W.S., Matsuoka, K., Millan, R., Mouginot, J., Paden, J., Pattyn, F., Roberts, J., Rosier, S., Ruppel, A., Seroussi, H., Smith, E.C., Steinhage, D., Sun, B., Broeke, M.R. van den, Ommen, T.D. van, Wessem, M. van, Young, D.A. Deep glacial troughs and stabilizing ridges unveiled beneath the margins of the Antarctic ice sheet. *Nature Geoscience* 16. <https://doi.org/10.1038/s41561-019-0510-8>, 2019
 2. **Goel, V.**, Martin, C., and Matsuoka, K. (2018). Ice-rise stratigraphy reveals changes in surface mass balance over the last millennia in Dronning Maud Land. *Journal of Glaciology*, 64(248), 932-942. <https://doi:10.1017/jog.2018.81>, 2018
 3. **Goel, V.**, Brown, J., and Matsuoka, K.: Glaciological settings and recent mass balance of Blskimen Island in Dronning Maud Land, Antarctica, *The Cryosphere*, 11, 2883-2896, <https://doi.org/10.5194/tc-11-2883-2017>, 2017.
- JOURNAL REVIEWER
- Journal of Glaciology
 - Earth and Space Science
 - Journal of Geophysical Research: Earth Surface
- AWARDS
- Best oral presentation at the International Glaciological Society Nordic Branch Meeting, Reykjavik, Iceland, Oct 2014
 - DAAD (German Academic Exchange Service) IIT Master Thesis Scholarship
- CONFERENCES
- Talks
- International Glaciological Society Nordic Branch Meeting, Tromsø, Norway
Title: *Glaciological settings and recent mass balance of Blaskimen Ice Rise, Antarctica* Oct 2016
 - International Glaciological Society International Symposium on Interactions of Ice Sheets and Glaciers with the Ocean, San Diego, USA
Title: *Glaciological settings and recent mass balance of Blaskimen Ice Rise, Antarctica* Jul 2016
 - 12th International Symposium on Antarctic Earth Sciences, Goa, India
Title: *Recent thickening of the Blaskimen Ice Rise in Dronning Maud Land Antarctica* Jul 2015
 - International Glaciological Society Nordic Branch Meeting, Reykjavik, Iceland
Title: *"Current status and past changes of ice rises in Dronning Maud Land, Antarctica Initial results from Blaskimen"* Oct 2014
- Posters
- *Current Status and Past Evolution of Ice Rises in Dronning Maud Land, Antarctica*, at the Polar 2018 conference, Davos, Switzerland Jun 2018
 - *This is APECS (Association of Polar Early Career Scientists)*, at the CHES all staff meeting, Bergen Mar 2016
- Attended
- *Arctic Frontiers 2017 (Arctic - Hindu-Kush Himalayan Science Policy dialogue)* Jan 2017
 - *APECS World Summit 2015, Sofia, Bulgaria,* June 2015
- OTHER ACTIVITIES
- Part of APECS (Association of Polar Early Career Scientists) leadership as a council member since 2015
- Led the project group to organise "APECS annual online conference 2019: Breaking Barriers"
 - Co-organized and chaired a breakout session during the APECS World Summit 2018, Davos, June 2018

- Organized APECS Panel discussion on "Work-Personal life balance" during the IGS Nordic Branch Meeting, Tromsø, 2016

Sessions chaired

- *Chaired a session during APECS annual online conference 2019: Breaking Barriers* Mar 2018
- *Chaired a session during APECS annual online conference 2018: Butterfly effect* Mar 2018
- *Chaired a session during APECS annual online conference 2017: Outside the box* Mar 2017
- *Chaired a session at the International Glaciological Society Nordic Branch Meeting, Tromsø, Norway* Oct 2016
- *Chaired a session at the CHESS all staff meeting, Bergen* Mar 2016