Curriculum Vitæ

Agnit Mukhopadhyay

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Education

Doctor of Philosophy in Space Sciences & Scientific Computing | University of Michigan — 2017 - 22
Topic: Sources of Ionospheric Conductance - Balance and Impact
Advisors: Prof. Michael W. Liemohn & Prof. Daniel T. Welling

Master of Science in Aerospace Engineering | University of Michigan — 2016 - 18
Specialization: Gas Dynamics

Bachelor of Technology in Aerospace Engineering | Punjab Engineering College — 2012 - 16
Specialization: Aerodynamics & Gas Propulsion

Research Experience

Graduate Student Research Assistant, University of Michigan, Ann Arbor — 2017 - Present
Funded through the *NASA Earth and Space Sciences Fellowship (2018 - 21).*

Visiting Research Scholar, University of Texas at Arlington — Summer 2019
Funded through the *Rackham Research Grant Fellowship (2019).*

Visiting Summer Scholar, Indian Institute of Science, Bangalore — Spring 2015

Exchange Research Student, Indian Institute of Technology, Kanpur — Winter 2015

Selected Honours, Fellowships & Awards

NASA Earth and Space Sciences Fellowship	2018 - 21
AMS Annual Meeting - Outstanding Presentation Award	2020
NSF Geospace Environment Modeling Workshop - Best Student Poster Award	2019
NASA CCMC Student Research Contest Winner	2017
Silver Medalist *in Aerospace Engineering (equiv. to summa cum laude)*	2016

Technical Skills

Languages	Python 2/3, FORTRAN 90, C/C++, LaTeX, MATLAB
Software	IDL, TecPlot, ANSYS, CATIA, Gambit, FLUENT, Microsoft Office, SWMF

Outreach & Service

2019 - Present	Student Representative for NSF Geospace Environment Modeling (GEM) Workshop
2018 - Present	Peer Mentorship Organizing Committee Member, Climate & Space, University of Michigan.
2017 - 18	Secretary of the Indian Student Association (ISA) at the University of Michigan.
2015 - 16	Member of the Student Activities Council at Punjab Engineering College.

Selected Publications & Presentations

Mukhopadhyay, A., Welling, D. T., Liemohn, M. W., Ridley, A. J., Chakrabarty S. and Anderson, B. J., (2020) "Conductance Model for Extreme Events - Impact of Auroral Conductance on Space Weather Forecasts", submitted to *Space Weather*. Preprint available: doi:10.1002/essoar.10503207.2.

Mukhopadhyay, A., Welling, D. T., Liemohn, M. W. and Jia, X., (2020) "Global Simulations: Quantitative Comparison of Magnetopause Distances and CPCP Estimations", to be submitted in *Frontiers Journal of Astronomy and Space Sciences*. Preprint available: doi:10.1002/essoar.10502157.1.

Mukhopadhyay, A., Welling, D. T., Liemohn, M. W. and Ridley, A. (2020) "A Study in Skill: Improving dB/dt Forecasts with Advanced Conductance Models", *17th Space Weather Conference* at *Annual Meeting of American Meteorological Society*, Boston, MA. Awarded *Best Student Talk.*