

SUHAS MAHESH

Twitter

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Website

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I am a materials physicist whose work unites computation, ML and experiments for pressing materials discovery challenges in photovoltaics, catalysis and corrosion resistance.

Employment

Sep 2021–	Schmidt Science Fellow link Electrical & Computer Engineering (with Ted Sargent, Jason Hattrick-Simpers)	University of Toronto
	<ul style="list-style-type: none">• Developed HTE for Meta's Open Catalyst Project• Second bullet in the first column.• Third bullet in the first column.	<ul style="list-style-type: none">• First bullet in the second column.• Second bullet in the second column.• Third bullet in the second column.
2016–2021	PhD Researcher (Physics) link Rhodes Scholarship	University of Oxford
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Education

2016–2021	Doctor of Philosophy in Condensed Matter Physics Rhodes Scholarship link ; Advisor: Prof. Henry Snaith, FRS link <i>Optical and Electronic Studies of New Materials for Multijunction Photovoltaics</i> link Thesis award (2021) from MPLS Division, University of Oxford	University of Oxford
2012–2016	Bachelor of Science in physics With highest honors	Indian Institute of Science
2016	Research Intern Inkjet Processed Semiconductors link	Italian Institute of Technology
2015	Research Intern Carbon Nanotube based FETs link	University of Groningen, Netherlands

Published Articles and Book Chapters

Please see my [Google Scholar](#)

Patents

Pending Snaith, H. J and Mahesh, S. **Multi-Junction Optoelectronic Device Comprising Device Interlayer**, International Application Number: PCT/GB2019/053550 [link](#)

Grants, Fellowships and Prizes

2024 Catalyst Interdisciplinary Award (\$10,000) [link](#)
 2023 Software engineering grant (1 FTE-year), Virtual Institute for Scientific Software [link](#)
 2023 Acceleration Consortium Fellowship (\$110,000) [link](#)
 2022 Optoelectronics Materials Discovery Grant, Schmidt Futures (\$42,000) [link](#)
 2021 **Schmidt Science Fellowship** (\$200,000) [link](#)
 2021 **PhD Thesis Award, MPLS Division, University of Oxford**
 2019 Best Early Career Presentation, SUNRISE Solar Symposium (London)
 2019 Best Early Career Presentation, Indo-UK Optoelectronics Meet (Pune, India)
 2016 **Rhodes Scholarship** (\$150,000)

Recent Invited Talks

2024 Automated Catalyst Discovery using GAM workflows Schmidt Science Summit
 2023 ML-guided Discovery of Two-Dimensional Perovskites (invited) Synthace
 2023 Beating the Negative Data Problem in Materials Science (invited) Rhodes Trust
 2022 Thermodynamics of Optoelectronic Devices (invited) University of Oxford
 2021 Computational Modelling of Solar Absorbers (invited) IISER Berhampur
 2021 Spatial Inhomogeneities in Perovskite Photovoltaics (invited) SUNRISE Symposium
 2020 Origin of Phase Instabilities in Perovskite Semiconductors (invited) Oxford PV

Outreach and Community

2023 Selector for Rhodes Scholarship Rhodes Trust
 2021 Selector for the RISE Award [link](#) RISE
 2019 Conference for Undergraduate Women in Physics (co-organiser) Institute of Physics
 2019 Stargazing Science Festival (outreach exhibit) [link](#) University of Oxford
 2018 Oxford Science Festival (outreach exhibit) [link](#) University of Oxford
 2014-16 Head of Scholarships, Notebook Drive [link](#) Notebook Drive
 Notebook Drive is an NGO working to improve access to primary education in rural India.

Other Interests

2023– Co-creator of ambuda.org [link](#)
Breakthrough digital library of Sanskrit with intelligent ML-based tools

Feb 2024 *How to Love in Sanskrit* (HarperCollins; co-authored with Anusha Rao)
Compendium of 3000 years of Sanskrit verse in English translation