

# ANSHUMAN SINHA

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CONTACT INFORMATION	CODA S1349B	Phone: +1(470) 929-3962
	Georgia Institute of Technology Atlanta, GA-30332, US.	Email: anshs@gatech.edu
EDUCATION	<b>Georgia Institute of Technology, Atlanta</b>	<i>Jul'22-May'24</i>
	MS CSE, College of Computing	
	<b>Indian Institute of Technology Kanpur, India</b>	<i>Jul'15-May'20</i>
	BT-MT Dual Degree (Thesis in Computations ), Materials Science and Engineering CGPA: 9.0/10 (MT); 8.0/10 (BT) (Proficiency Gold medal Thesis Gold medal 2nd place)	
	<b>St. Michael's High School, Patna, Bihar, India</b> <i>AISSCE, CBSE Board</i>	
	Grade 12: Percentage Score: <b>94.6%</b>	<i>May'14</i>
	Grade 10: Percentage Score: <b>95.0%</b> , CGPA: <b>10/10</b>	<i>May'12</i>
ACHIEVEMENTS	<ul style="list-style-type: none"><li>• Awarded the 'Institute Proficiency medal' and 2nd position for the 'Prof. Baldeva Upadhyay Gold medal 2020' for the Best M.tech thesis at IIT Kanpur for the year 2020.</li><li>• Awarded the Full tuition waiver and GTA position at Georgia Tech for MS 2022-24.</li></ul>	
CONFERENCES	<ul style="list-style-type: none"><li>• CCC Annual Meeting (Colorado) USA, TMS ICME 2021 (Nevada) USA, MOLTEN 2020 (South Korea), RSD (India), APM (India), NMD (India). Various topics of computational modelling.</li></ul>	
WORK EXPERIENCE	<b>Research project: Deep learning, CSE Georgia Tech.</b> <a href="#">link</a>	
	<b>Advisor: Prof. Spencer Bryngelson</b>	<i>Jul'22-Present</i>
	<ul style="list-style-type: none"><li>• Developing Deep learning architecture for mathematical operator estimations, in order to compute highly-oscillatory integrals efficiently.</li></ul>	
	<b>ML Researcher, Georgia Tech, Atlanta, USA.</b> <a href="#">link</a>	<i>May'21-Jul'22</i>
	<ul style="list-style-type: none"><li>• Developed a Graph transformer network (GTN) for heterogeneous graphs used in representation learning tasks such as node classification and link prediction on TensorFlow.</li></ul>	
	<b>Computational Engineering Researcher, UIUC (Illinois) and CSM, Denver, USA.</b>	
	<b>Supervisor : Dr. Brian G Thomas (Publication: Under draft)</b>	<i>Feb'21-Present</i>
	<ul style="list-style-type: none"><li>• Developing a numerical kinetic precipitation model to predict evolution of precipitate size distribution, with the help of mathematical grouping techniques.</li></ul>	
	<b>CTO, Co-founder, STEMrev Defcon AI, INDIA,</b>	<i>Mar'20-Feb'21</i>
	<ul style="list-style-type: none"><li>• Focused on bringing the engineering expertise in this field with the help of AI and fight the pandemic with the help of auto-encoders.</li></ul>	
PUBLICATION	<b>Optimisation of a multi surrogate model system with the help of Genetic algorithm.</b>	
	<i>Anshuman Sinha, A K Singh. (Draft only, paper under peer-review) <a href="#">link: Publication 2</a></i>	
	<ul style="list-style-type: none"><li>• Optimisation of the ladle furnace time with the help of a CFD based Deep learning surrogate models. Further, ladle process variables are optimised with the help of this low order DL model.</li></ul>	
	<b>Computational study of non isothermal slag eye formation and its effects</b> <i>Anshuman Sinha, Amarendra Singh.(MMTB), 2021, (Submitted) <a href="#">link: Publication1</a></i>	
	<ul style="list-style-type: none"><li>• A computational study of the slag-eye opening with the help of Discrete Phase modelling (DPM) coupled with random walk model for including the particle level turbulence, is performed.</li></ul>	
RELEVANT COURSES	<b>Courses:</b> Machine learning, Computational epidemiology, Computational data analysis, Probability & Statistics, Non-linear Optimisation, Data structures and algorithms, Deep learning, Numerical linear algebra, Computational Turbulence.	