

ABHILASH CHANDRA SINGH

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EDUCATION	PhD Candidate, Transportation Engineering Imperial College London <i>Committee: Aruna Sivakumar (advisor), Dan Graham (internal examiner)</i>	2019 - present
	MS, Transportation Engineering The University of Texas at Austin <i>Committee: Chandra Bhat (advisor), Stephen Boyles (examiner)</i>	2016 - 2017
	BTech, Civil Engineering Indian Institute of Technology Bombay The Cooper Union for the Advancement of Science and Art <i>Committee: Tom Mathew (advisor), Raaj Ramsankaran</i>	2012 - 2016
RESEARCH	Theoretical and applied econometrics; Choice modelling; Transportation systems engineering and planning	
HONOURS	Imperial College Global Fellowship (Germany)	UK, 2022
	Turing Scheme Research Award	UK, 2022
	Department Dixon Scholarship	UK, 2019 - 2023
	Wellcome Trust Scholarship	UK, 2019 - 2023
	Professional Development Award	Texas, 2018
	Texas District Student Fellowship	Texas, 2017
	Graduate fellowship	Texas, 2016-2018
	University of Alberta Research fellowship	Canada, 2015
	IITBAA-NY Chapter exchange scholarship	New York, 2014
	IIT JEE rank 1,321 out of 1,000,000	India, 2012
PAPERS	State Mathematics Olympiad Rank 19 out of 1,000,000	India, 2010
	15. Watanabe H. and A.C. Singh . A probit instrumental variable model for addressing endogeneity in multinomial choice and its choice set formation (working paper).	
	14. Singh, A.C. , A. Sivakumar and R. Moeckel. Semi-compensatory probabilistic model for residential location choices (working paper).	
	13. Singh, A.C. , F. Guo, A. Sivakumar and A. Gough. Incorporating the impacts of air pollutants and exposure to crime into accessibility-based planning: A London Case Study (working paper).	
	12. Singh, A.C. , A. Faghih-Imani, A. Sivakumar, Y. Xi and E. J. Miller. Joint estimation of Accessibility measures and Multi-modal frequency of trips to account for endogeneity effects (working paper).	
	11. Singh, A.C. , A. Sivakumar. Accessibility in the Era of Big Data and Emerging Technologies (working paper).	
	11. Singh, A.C. , A. Sivakumar. Semi-compensatory probabilistic model for residential location choices. 7 th International Choice Modeling (ICMC), Reykjavik, Iceland, May 2022.	
	10. Singh, A.C. , H. Bouscasse, A. Sivakumar. Psychosocial Factors associated with Intended Use of Automated Vehicles: A Latent-Class and Latent-Variable Analysis. 9 th Symposium of the European Association for Research in Transportation (hEART), Lyon, France, February 2021.	
	9. Singh, A.C. , K.C. Abel, J.W. Hutchinson, K.M. Faust, and C.R. Bhat. Food Access for Low Income Individuals. Session on Highlights from the 2017 NHTS Data Workshop. 98 th Annual Meeting of the Transportation Research Board, Washington, DC, January 2019.	

8. **Singh, A.C.**, K.C. Abel, J.W. Hutchinson, K.M. Faust, and C.R. Bhat. Predictive Food Desert Simulation Modelling to increase Food Access in Underserved Communities. National Household Travel Survey (NHTS) Data for Transportation Applications Workshop in Washington, DC in August 2018.
 7. **Singh, A.C.**, P. Lavieri, T. Kim, C.R. Bhat, and R.M. Pendyala. Evaluating the Effects of Consumer's Perceptions of Safety and Productive Use of Time on the Intention to Adopt Autonomous Vehicle Technology. 15th International Conference on Travel Behaviour Research, Santa Barbara, California, July 2018.
 6. Bouscasse H., **A.C. Singh**, S. Astroza, C.R. Bhat. Modeling Simultaneous Choices in Transportation. Rencontres Francophones Transport-Mobilité (RFTM), Lyon, June 2018.
 5. Copperman R., J. Lemp, T. Rossi, **A.C. Singh**, C.R. Bhat, R.M. Pendyala, S. Khoeini, S. Astroza. Adapting an Existing Activity Based Modeling Structure for the New York Region. 2018 TRB Innovations in Travel Modeling Conference, June 2018.
 4. **Singh, A.C.**, S. Astroza, V.M. Garikapati, R.M. Pendyala, C.R. Bhat, and P.L. Mokhtarian (2018), Quantifying the Relative Contribution of Factors to Household Vehicle Miles of Travel. Transportation Research Part D, Vol. 63, pp. 23-36.
 3. **Singh, A.C.**, S. Astroza, V.M. Garikapati, R.M. Pendyala, and C.R. Bhat. Quantifying the Contribution of Various Factors to Household Vehicle Miles of Travel. 97th Annual Meeting of the Transportation Research Board, Washington, DC, January 2018.
 2. **Singh, A.C.**, L. Yang, and M. Al-Hussein. Predicting the Energy Output for Solar PV Systems: A Statistical Analysis. University of Alberta Research Experience (UARE) Poster Symposium, Edmonton, Alberta, July 2015
 1. Yang L., E.K. Salim, **A.C. Singh**, H. Awad, H. Yu, M. Gül, and M. Al-Hussein. Integrating solar PV systems into residential buildings in cold-climate regions. University of Alberta Research Experience (UARE) Poster Symposium, Edmonton, Alberta, July 2015
10. "Semi-compensatory probabilistic model for residential location choices" TU Berlin Kai Nagel's Lab, July 2022
 9. "Semi-compensatory probabilistic model for residential location choices" ICMC, May 2022
 8. "Theoretical and Applied Choice Modelling" ASDA, March 2022
 7. "Incorporating the impacts of air pollutants and exposure to crime into accessibility-based planning: A London Case Study." WSTLUR, Sep 2021
 6. "Exploring and quantifying the effect of weather on sales." The Alan Turing Institute, July 2021
 5. "Psychosocial Factors associated with Intended Use of Automated Vehicles: A Latent-Class and Latent-Variable Analysis." hEART, Feb 2021
 4. "Food Access for Low Income Individuals." TRB, Jan 2019
 3. "Evaluating the Effects of Consumer's Perceptions of Safety and Productive Use of Time on the Intention to Adopt Autonomous Vehicle Technology." IATBR, July 2018
 2. "Quantifying the Contribution of Various Factors to Household Vehicle Miles of Travel." TRB, Jan 2018
 1. "Integrating solar PV systems into residential buildings in cold-climate regions." UARE,

**INVITED/
CONFERENCE
TALKS**

	July 2015	
REPORTS	1. Boyles, S. D., C. Bhat, J. Duthie, N. Jiang, F. Dias, E. Jafari, V. Pandey, A.C. Singh , and C. Yahia. (2017) Methods for Improving Consistency between Statewide and Regional Planning Models. Texas Department of Transportation Report FHWA/TX-17/0-6900-1.	
TEACHING EXPERIENCE	Imperial College London Transport Demand and Economics (CIVE70016) Advanced Transport Modelling (CIVE97126)	2022 2020, '21, '22
SERVICE	Steering Committee Member: Imperial Network of Excellence Sustainability through Life Cycle Approaches Urban Systems Lab, Imperial College London Seminar series with over 12 international guest speakers Mentor The AMOS Bursary Techlabs London Department Academic Mentorship Program (DAMP) Provided one-on-one counseling and teaching to sophomore students at Indian Institute of Technology Bombay Reviewing Activities: Journal of Transport and Land Use Transportation Transportmetrica A: Transport Science World Symposium on Transport and Land Use Research Transportation Research Record	2021 - present 2021 - present 2021 - 2022 2021 - 2022 2015 - 2016 2022 - present 2021 - present 2021 - present 2021 2019 - present
WORK EXPERIENCE	Senior Data Scientist , ASDA Business Services, UK Data Science Researcher , The Alan Turing Institute, UK Research Assistant , Imperial College London, UK Research Assistant , Center for Transportation Research, Texas Research Assistant , ItalConsult & MOTC Qatar, remote Research Intern , Hindustan Construction Company, India Research Intern , University of Alberta, Canada Research Intern , Indian Institute of Management Lucknow, India	2021-2022 Summer 2021 2019-2021 2016-2019 2017-2018 2015 Summer 2015 Summer 2014