KARTHIK C. S.*

Department of Computer Science, Rutgers University, Piscataway, NJ 08854, USA.

% cskarthikcs.github.io

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RESEARCH INTERESTS

I am broadly interested in **Theoretical Computer Science**. In particular, I have spent the last few years proving **Hardness of Approximation** results for problems in **P** and understanding the Hardness of **Geometric** problems, such as **Clustering**, **Steiner Tree**, **Closest Pair**, and **Fixed Point** Computation.

EDUCATION

Ph.D. in Computer Science
 Weizmann Institute of Science, Rehovot, Israel
 Ph.D. Thesis: New Arenas in Hardness of Approximation

September 2014 – June 2019
Advisor: Prof. Irit Dinur

M.S. in Computer Science
 École Normale Supérieure, Lyon, France
 Master Thesis: Lower bounds for Multilinear Branching Programs

September 2012 – July 2014
Advisor: Prof. Hervé Fournier

EMPLOYMENT

Assistant Professor
Rutgers University, New Brunswick, USA
 Postdoctoral Fellow
Host: Prof. Subhash Khot
 Postdoctoral Fellow
Fostdoctoral Fellow
Fostdoctoral Fellow
Fost: Prof. Amir Shpilka
 Postdoctoral Fellow
Fostdoctoral Fellow
Fost: Prof. Amir Shpilka
 Postdoctoral Fellow
Fostdoctoral Fellow
Fost: Prof. Irit Dinur
 Weizmann Institute of Science, Rehovot, Israel

SELECTED ACADEMIC AWARDS AND HONORS

0	National Science Foundation CAREER Award (\$649,200)	2025-29
	<i>Title:</i> CAREER: Price of Clustering in Geometric Spaces: Inapproximability, Conditional Lower and More	Bounds,
0	National Science Foundation Grant (\$252,846) Title: DIMACS Special Focus on Fine-Grained Complexity	2024–27
0	National Science Foundation Grant (\$600,000) Title: AF: Small: Hardness of Approximation Meets Parameterized Complexity	2023–26
0	Rutgers Research Council Individual Fulcrum Award (\$2,000)	2022-23
0	Rutgers University Libraries Open and Affordable Textbooks Award (\$1,000)	ring 2023
0	Simons Foundation Junior Faculty Fellow	2021-24
0	Postdoctoral Matching Scholarship at Tel Aviv University (\$17,500)	2019
0	LIP (Laboratoire de l'Informatique du Parallélisme) Fellowship at ENS Lyon (\$12,000)	2013
0	INRIA – ENS Cachan Fellowship (regretfully declined)	2013
0	Labex (Laboratoires d'excellence) Scholarship at University of Nice-Sophia Antipolis (\$7,000)	2012
0	Innovation in Science Pursuit for Inspired Research (INSPIRE) Scholarship	2010–12
0	KPMG Scholarship	2009–12

^{*} In some legal documents, my name appears as "Karthik Cambipuram Srikanta" or "Karthik Srikanta".

o National Board for Higher Mathematics (NBHM) Scholarship	2008
Kishore Vaigyanik Protsahan Yojana (KVPY) fellowship	2007
o Indian National Mathematical Olympiad (INMO) Awardee	2007
National Talent Search Examination (NTSE) scholarship	2006
Mentoring	
Ph.D. Students at Rutgers:	
o Surya Teja Gavva	Graduated March 2023
Thesis: Computational Aspects of Some Geometric and Analytic Problems	
Surya joined City University of New York as Lecturer after graduation.	2021
o Minhao Bai	2021 – ongoing
Adarsh Srinivasan Maraelin Helile	2022 – ongoing
Mursalin Habib Martan Stratanta at Partanea	2023 – ongoing
Master Students at Rutgers: o Sharath Punna	Graduated April 2023
Thesis: On Clustering Data with Few Clusters	Outstanding Project Award
Sharath joined Ansys as R&D Engineer after graduation.	3 ,
Undergraduate Students at Rutgers:	
o Parth Patel	Summer 2022
o Kashish Vaibhav	Summer 2022
Shakib Rahman* Received Novielli Award	2022 – 2023
o Keya Patel	2022 – 2023
o Surya Mantha	2022 – 2023
o Elijah Rubin	2022 – 2023
Enver Aman	2023 - 2024
* Received Henry Rutgers Scholar Award* Received Magidson Award	
DIMACS REU Students:	
 Henry Fleischmann (University of Michigan) * Received Honorable Mention for the CRA Outstanding Undergradua 	Summer 2022 ate Researcher Award 2023
Lakshay Patel (University of California Berkeley)	Summer 2022
 Styopa Zharkov (Stanford University) * Received Honorable Mention for the CRA Outstanding Undergradua 	Summer 2023
Ashwin Padaki (Columbia University)	Summer 2023
Jakub Petr (Charles University)	Summer 2023
Guillermo Gamboa (Charles University)	Summer 2023, Summer 2024
Kyrylo Karlov (Charles University)	Summer 2023
Josef Matějka (Charles University)	Summer 2023
Patrik Zavoral (Charles University)	Summer 2024
Todor Antic (Charles University)	Summer 2024
Jelena Glisic (Charles University)	Summer 2024
Visiting Students:	

Professional Service	
Workshop/Seminar (Co)-Organizer:	
DIMACS Workshop on Hardness of Approximation in P Center for Discrete Mathematics and Theoretical Computer Science	2025
DIMACS Tutorial on Fine-grained Complexity Center for Discrete Mathematics and Theoretical Computer Science	2024
Old Questions and New Directions in Theory of Clustering University of California San Diego EnCORE Workshop	2024
Parameterized Approximation: Algorithms and Hardness Dagstuhl Seminar	2023
Theory Seminar Rutgers and DIMACS	2022–2024
Program Committee Member of Conferences:	
IEEE International Conference on Data Mining (ICDM)	2024
ACM Symposium on Theory of Computing (STOC)	2024
ACM-SIAM Symposium on Discrete Algorithms (SODA)	2024
IARCS Annual Conference on Foundations of Software Technology and Theoretical Com (FSTTCS)	puter Science 2023
Conference on Uncertainty in Artificial Intelligence (UAI)	2023
EATCS International Colloquium on Automata, Languages and Programming (ICALP)	2023
International Workshop on Approximation and Online Algorithms (WAOA)	2022
Innovations in Theoretical Computer Science Conference (ITCS)	2022
 Conference on Uncertainty in Artificial Intelligence (UAI) * Recognized as Top Reviewer 	2022
Conference on Uncertainty in Artificial Intelligence (UAI)	2021
International Symposium on Parameterized and Exact Computation (IPEC)	2021
External Reviewer for Journals:	
Journal of the ACM	
SIAM Journal on Computing	
Journal of Computational Complexity	
SIAM Journal on Discrete Mathematics	
Computer Science Review	
Information Proceeding Letters	

- Information Processing Letters
- o IEEE Transactions on Pattern Analysis and Machine Intelligence
- o Games and Economic Behavior
- o ACM Journal of Experimental Algorithmics
- Algorithmica

External Reviewer for Conferences:

 ACM Symposium on Theory of Computing (STOC) 	2019 – 23, 2025
\circ IEEE Symposium on Foundations of Computer Science (FOCS)	2018, 2020 – 21, 2023 – 24
o ACM-SIAM Symposium on Discrete Algorithms (SODA)	2020 – 23, 2025

Computational Complexity Conference (CCC)		2019, 2021
International Conference on Machine Learning (IC)	CMI)	2023
International Symposium on Computational Geom	,	2021 – 22
ACM Symposium on Parallelism in Algorithms an	• •	2017, 2021
EATCS International Colloquium on Automata, La	·	
 Innovations in Theoretical Computer Science Conf 		2020, 2024 – 25
 SIAM Symposium on Simplicity in Algorithms (So 	, ,	2024 – 25
 European Symposium on Algorithms (ESA) 	OOA)	2019, 2021 – 23
International Conference and Workshops on Algor	rithms and Computation (WAI COM)	
 International Symposium on Algorithms and Com 	•	2019
 International Conference on Approximation Algorit 		
o international Conference on Approximation Aigorit		2019, 2023
o International Conference on Current Trends in Theo	ory and Practice of Computer Science (SOFSEM) 2024
o International Computer Science Symposium in Ru	ssia (CSR)	2018
o ACM Symposium on Principles of Distributed Cor	mputing (PODC)	2018
o International Conference on Randomization and C	Computation (RANDOM)	2018
o Symposium on Theoretical Aspects of Computer S	Science (STACS)	2018, 2025
External Reviewer for Grant Proposals:		
 French National Research Agency (ANR) 		
Israel Science Foundation (ISF)		
Committee Services at Rutgers:		
 Faculty Hiring committee Rutgers University 		2024
 PhD Admissions committee Rutgers University 		2022 – 25
 Masters Admissions committee Rutgers University 		2025
 School of Arts and Sciences Honors Program Facul Rutgers University 	lty Mentor	2022 – 24
Research Visits		
 INSAIT, Sofia, Bulgaria Host: Prof. Amir Abboud and Prof. Bernhard Haeu 	•	–November 2024
 Paris Cité University, Paris, France Host: Dr. David Saulpic 	April 2024	, November 2024
 University of California, San Deigo, USA Host: Prof. Barna Saha 	Febru	ary–March 2024
 Indian Institute of Science, Bangalore, India Host: Prof. Rahul Saladi 	February – March 2022, Decembe November 2023, April 2024, August 2024	
 Indian Institute of Technology Bombay, Mumbai Host: Prof. Akash Kumar 	i, India	August 2023
 Weizmann Institute of Science, Israel Host: Prof. Amir Abboud and Prof. Merav Parter 	August 2022, October	2022, May 2023
o University of Birmingham, UK		June 2023

Host: Prof. Rajesh Chitnis

o Carnegie Melon University, USA

Host: Prof. Boris Bukh

November 2019

September 2019

May 2022

o Google Research, Mountain View, USA

Host: Dr. Pasin Manurangsi

o Eötvös Loránd University, Budapest, Hungary

Host: Prof. Dömötör Pálvölgyi

o Microsoft Research India

Host: Dr. Prateek Jain

July – August 2019

o Shanghai University of Finance and Economics, China

Host: Prof. Bundit Laekhanukit

June 2019

o University of California, Santa Barbara, USA

Host: Prof. Daniel Lokshtanov

May 2019

 $\ \, \circ \ \, \text{Sorbonne University, Paris, France} \\$

Host: Dr. Vincent Cohen-Addad

April 2019, December 2019

o University of California, Berkeley, USA

Host: Pasin Manurangsi

July 2018, August 2018

o INRIA Sophia Antipolis, France

Host: Prof. Jean-Daniel Boissonnat

September 2013, June 2014, January 2017

INTERNSHIPS

Sensitivity Conjecture

Mentor: Dr. Satyanarayana Lokam

July-August 2015

Microsoft Research, Bangalore

Content Coordinator

Company: Function Space

July-August 2014 Bangalore

May-July 2013

• A τ conjecture for Newton Polygons

Mentors: Prof. Pascal Koiran and Prof. Stéphan Thomassé

ENS, Lyon

 Spectral Clustering for Convex sets Mentor: Dr. David Cohen-Steiner May-July 2012 INRIA, Sophia Antipolis

Parser for differential-algebraic equations
 Mentors: Prof. Kannan Moudgalya and Prof. John Pye

May-August 2011
Google Summer of Code

 Hash function for dictionary based on lexicographic properties *Mentor*: Prof. Deepak Phatak May-June 2010 IIT Bombay, Mumbai

Publications¹

The publications below are reverse chronologically ordered. As is customary in theoretical computer science research, **all** of the publications are listed in the alphabetical author order.

o On Steiner Trees of the Regular Simplex

Henry Fleischmann, Guillermo A. Gamboa Q., Karthik C. S., Josef Matějka, and Jakub Petr. To appear in Journal of Computational Geometry (**JoCG**).

o Inapproximability of Maximum Diameter Clustering for Few Clusters

Henry Fleischmann, Kyrylo Karlov, Karthik C. S., Ashwin Padaki, and Stepan Zharkov. In the Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (**SODA**), 2025.

• Maximum Span Hypothesis: A Weaker Assumption than Gap-ETH for Parameterized Complexity Karthik C. S. and Subhash Khot.

In the Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA), 2025.

¹In all the publications that I have coauthored, my name appears as "Karthik C. S.".

o On Equivalence of Parameterized Inapproximability of k-Median, k-Max-Coverage, and 2-CSP

Karthik C. S., Euiwoong Lee and Pasin Manurangsi.

In Proceedings of the International Symposium on Parameterized and Exact Computation (IPEC), 2024. Invited to Algorithmica journal Special Issue for IPEC 2024.

o On connections between k-coloring and Euclidean k-means

Enver Aman, Karthik C. S., and Sharath Punna.

In the Proceedings of the European Symposium on Algorithms (ESA), 2024.

On Inapproximability of Reconfiguration Problems: PSPACE-Hardness and some Tight NP-Hardness Results

Karthik C. S. and Pasin Manurangsi.

Manuscript: https://eccc.weizmann.ac.il/report/2024/007/

o Explicit Good Codes Approaching Distance 1 in Ulam Metric

Elazar Goldenberg, Mursalin Habib, Karthik C. S.

In the Proceedings of the International Symposium on Information Theory (ISIT), 2024.

• On Approximability of Steiner Tree in ℓ_p -metrics

Henry Fleischmann, Surya Teja Gavva, and Karthik C. S..

In the Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (**SODA**), 2024. To appear in **TheoretiCS**.

o Conditional lower bounds for sparse parameterized 2-CSP: A streamlined proof

Karthik C. S., Daniel Marx, Marcin Pilipczuk, and Uéverton Souza.

In the Proceedings of the SIAM Symposium on Simplicity in Algorithms (SOSA), 2024.

o Fairness of Linear Regression in Decision Making

Vincent Cohen-Addad, Surya Teja Gavva, Karthik C. S., Claire Mathieu, and Namrata.

In International Journal of Data Science and Analytics, 18(3): 337-347, 2024.

o Clustering Categorical Data: Soft Rounding k-modes

Surya Teja Gavva, Karthik C. S., and Sharath Punna.

In **Information and Computation**, 296(1): 105–115, 2024.

o On Complexity of 1-Center in Various Metrics

Amir Abboud, MohammadHossein Bateni, Vincent Cohen-Addad, Karthik C. S., and Saeed Seddighin. In the Proceedings of the International Conference on Approximation Algorithms for Combinatorial Optimization Problems (APPROX), 2023.

o Can You Solve Closest String Faster than Exhaustive Search?

Amir Abboud, Nick Fischer, Elazar Goldenberg, Karthik C. S., and Ron Safier.

In the Proceedings of the European Symposium on Algorithms (ESA), 2023.

o Obtaining Approximately Optimal and Diverse Solutions via Dispersion

Jie Gao, Mayank Goswami, Karthik C. S., Meng-Tsung Tsai, Shih-Yu Tsai, and Hao-Tsung Yang. In the Proceedings of the Latin American Theoretical Informatics Symposium (**LATIN**), 2022.

• Almost Polynomial Factor Inapproximability for Parameterized k-Clique

Karthik C. S. and Subhash Khot.

In the Proceedings of the Computational Complexity Conference (CCC), 2022.

Invited to Theory of Computing journal Special Issue for CCC 2022.

o Johnson Coverage Hypothesis: Inapproximability of k-means and k-median in ℓ_p -metrics

Vincent Cohen-Addad, Karthik C. S., and Euiwoong Lee.

In the Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA), 2022.

o Applications of Random Algebraic Constructions to Hardness of Approximation

Boris Bukh, Karthik C. S., and Bhargav Narayanan.

In the Proceedings of the Symposium on Foundations of Computer Science (**FOCS**), 2021. To appear in **Israel Journal of Mathematics**.

o On Approximability of Clustering Problems Without Candidate Centers

Vincent Cohen-Addad, Karthik C. S., and Euiwoong Lee.

In the Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA), 2021.

o Deterministic Replacement Path Covering

Karthik C. S. and Merav Parter.

In the Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA), 2021.

In *ACM Transactions on Algorithms* (**TALG**), 20(4): 34:1-34:35, 2024.

On Hardness of Approximation of Parameterized Set Cover and Label Cover: Threshold Graphs from Error Correcting Codes

Karthik C. S. and Inbal Livni Navon.

In the Proceedings of the SIAM Symposium on Simplicity in Algorithms (SOSA), 2021.

o On Communication Complexity of Fixed Point Computation

Anat Ganor, Karthik C. S., and Dömötör Pálvölgyi.

In ACM Transactions on Economics and Computation (TEAC), 9(4): 25:1–25:27, 2021.

o On Efficient Low Distortion Ultrametric Embedding

Vincent Cohen-Addad, Karthik C. S., and Guillaume Lagarde.

In the Proceedings of the International Conference on Machine Learning (ICML), 2020.

o A Survey on Approximation in Parameterized Complexity: Hardness and Algorithms

Andreas Emil Feldmann, Karthik C. S., Euiwoong Lee, and Pasin Manurangsi.

In **Algorithms**, 13(6), 146, 2020 (*by invitation* to special issue titled 'New Frontiers in Parameterized Complexity and Algorithms').

o Hardness Amplification of Optimization Problems

Elazar Goldenberg and Karthik C. S.

In the Proceedings of the Innovations in Theoretical Computer Science (ITCS), 2020.

• Inapproximability of Clustering in ℓ_p -metrics

Vincent Cohen-Addad and Karthik C. S.

In the Proceedings of the Symposium on Foundations of Computer Science (FOCS), 2019.

o On Closest Pair in Euclidean Metric: Monochromatic is as Hard as Bichromatic

Karthik C. S. and Pasin Manurangsi.

In the Proceedings of the Innovations in Theoretical Computer Science (ITCS), 2019.

In **Combinatorica**, 40(4): 539–573, 2020.

o Parameterized Intractability of Even Set and Shortest Vector Problem

Arnab Bhattacharyya, Édouard Bonnet, László Egri, Suprovat Ghoshal, Karthik C. S., Bingkai Lin, Pasin Manurangsi, and Dániel Marx.

In Journal of the ACM (JACM), 68(3): 16:1–16:40, 2021.

An earlier version by Arnab Bhattacharyya, Suprovat Ghoshal, Karthik C. S., and Pasin Manurangsi, titled *Parameterized Intractability of Even Set and Shortest Vector Problem from Gap-ETH* appeared in Proceedings of International Colloquium on Automata, Languages, and Programming (**ICALP**), 2018.

o Towards a General Direct Product Testing Theorem

Elazar Goldenberg and Karthik C. S.

In the Proceedings of the IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS), 2018.

In ACM Transactions on Computation Theory (TOCT), 12(1): 7:1–7:18, 2020.

On the Parameterized Complexity of Approximating Dominating Set

Karthik C. S., Bundit Laekhanukit, and Pasin Manurangsi.

In the Proceedings of the Symposium on Theory of Computing (STOC), 2018.

In *Journal of the ACM* (**JACM**), 66(5): 33:1–33:38, 2019.

Invited to SIAM Journal on Computing Special Issue for STOC 2018 (regretfully declined).

Invited to Highlights of Algorithms (HALG) 2019.

o On The Complexity of Closest Pair via Polar-Pair of Point-Sets

Roee David, Karthik C. S., and Bundit Laekhanukit.

In the Proceedings of the Symposium on Computational Geometry (SoCG), 2018.

In SIAM Journal on Discrete Mathematics (SIDMA), 33(1): 509–527, 2019.

o Communication Complexity of Correlated Equilibrium with Small Support

Anat Ganor and Karthik C. S.

In the Proceedings of the International Conference on Approximation Algorithms for Combinatorial Optimization Problems (**APPROX**), 2018.

o Ham Sandwich is Equivalent to Borsuk-Ulam

Karthik C. S. and Arpan Saha.

In the Proceedings of the Symposium on Computational Geometry (SoCG), 2017.

o An Efficient Representation for Filtrations of Simplicial Complexes

Jean-Daniel Boissonnat and Karthik C. S.

In the Proceedings of the ACM-SIAM Symposium on Discrete Algorithms (SODA), 2017.

In ACM Transactions on Algorithms (TALG), 14(4): 44:1–44:21, 2018.

$\circ\,$ Did the Train Reach its Destination: The Complexity of Finding a Witness

Karthik C. S.

In Information Processing Letters (IPL), 121(5): 17–21, 2017.

o On the Sensitivity Conjecture for Disjunctive Normal Forms

Karthik C. S. and Sébastien Tavenas.

In the Proceedings of the IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS), 2016.

o Building Efficient and Compact Data Structures for Simplicial Complexes

Jean-Daniel Boissonnat, Karthik C. S., and Sébastien Tavenas.

In the Proceedings of the Symposium on Computational Geometry (SoCG), 2015.

In **Algorithmica**, 79(2): 530–567, 2017.

Invited Talks²

 Inapproximability of k-means and k-median: A Unified Framework Frontiers of Geometric Algorithms workshop 	December 2024
 Hardness of Approximation of Diameter Clustering Queens College CUNY Computer Science Colloquium Bangalore Theory Seminar 	October 2023 November 2023
o Hardness of Approximating Steiner Tree in ℓ_p -metrics Bangalore Theory Seminar NYU Theory Seminar Weizmann Institute of Science	January 2023 March 2023 May 2023
• Hardness of Approximation for Metric Clustering STOC workshop: The Recent Past and Near Future of Clustering (virtual talk) Recent Trends in Algorithms, India (virtual talk) Indian Institute of Technology Bombay Theory Seminar, India	June 2021 March 2022 August 2023
 Recent Hardness of Approximation results in Parameterized Complexity Workshop at Hausdorff Center for Mathematics (virtual talk) 	December 2021
 Reversing Color Coding University of Michigan and Purdue University Joint Theory Seminar (virtual talk) Rutgers University Theory Seminar (virtual talk) Cornell University Theory Seminar (virtual talk) 	September 2021 September 2021 September 2021
 Fairness in Decision Making: Is Linear Regression Fair? New York University Scholar Speaker Series (virtual talk) 	November 2020
• Towards a Unified Framework for Hardness of Approximation in P TAU Theory Fest, Tel Aviv Frontiers of Parameterized Complexity (virtual talk) Parameterized Complexity Workshop (virtual talk) Combinatorics Seminar, Tel Aviv University (virtual talk)	January 2020 August 2020 December 2020 March 2021

²These do not include talks given at conferences.

Ultrametrics meet Fine-Grained Complexity

	Weizmann Institute of Science (virtual talk)	July 2020
	Yahoo Research Seminar (virtual talk)	January 2021
0	Clustering: How hard is it to classify data?	
Ĭ	Google, Mountain View	November 2019
	Columbia University	November 2019
	Weizmann Institute of Science	December 2019
	Hebrew University of Jerusalem	December 2019
		December 2017
0	Inapproximability of Clustering in ℓ_p -metrics	N. 2010
	Fine-Grained Approximation Algorithms & Complexity Workshop, Bertinoro	May 2019
	Shanghai University of Finance & Economics	June 2019
	Tel Aviv University	June 2019
	Microsoft Research India	August 2019
	Indian Institute of Science	August 2019
	Eötvös Loránd University, Budapest	September 2019
0	New Arenas in Hardness Amplification	
	Ben-Gurion University	March 2019
	Hebrew University of Jerusalem	April 2019
	Sorbonne University	April 2019
0	On Complexity of Closest Pair Problem	
U	Indian Institute of Science	August 2018
	FILOFOCS Workshop, Institut Henri Poincaré, Paris	October 2018
	Tel Aviv University	October 2018
	Technion – Israel Institute of Technology	January 2019
	Hebrew University of Jerusalem	April 2019
	National Institute of Science Education and Research, Bhubaneswar	August 2019
	·	1100000 2019
0	A Framework for Parameterized Hardness of Approximation	I 2010
	Hebrew University of Jerusalem	January 2018
	Tel Aviv University	March 2018
	Stanford University Simons Institute for Theory of Computing, Berkeley	July 2018
		August 2018
0	An Efficient Representation for Filtrations of Simplicial Complexes	
	Topology for Data Analysis Winter School, INRIA Sophia Antipolis	January 2017
0	Building Efficient and Compact Data Structures for Simplicial Complexes	
	Ben-Gurion University	December 2015
_	In and Around the Sensitivity Conjecture	
O	Microsoft Research, India	September 2015
	wicrosoft Rescurch, than	September 2013
п	The course Everyone	
_	TEACHING EXPERIENCE	
0	Linear Programming and its Application to Approximation Algorithms (CS 52)	1) Instructor
	Rutgers University	Fall 2023
_	Undergraduate Computability and Complexity Theory (CS 452)	Instructor
O	Rutgers University	Fall 2023, Spring 2025
0	Introduction to Discrete Structures I (CS 205)	Instructor
	Rutgers University	Spring 2023
0	Complexity of Computation (CS 538)	Instructor
	Rutgers University	Fall 2022
^	Seminar on Interplay of Geometry and Computation (CS 671)	Instructor
O	Rutgers University	Fall 2021
0	A Theorist's Toolkit	Teaching Assistant
	Weizmann Institute of Science	Spring 2018

Computer Programming and Utilization (CS 101)
 Indian Institute of Technology Bombay
 Awarded Certificate for outstanding services in both semesters

Teaching Assistant Fall 2011, Spring 2012