

# Siddhesh Chaubal

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## RESEARCH INTERESTS

Machine Learning, Transfer Learning, Supervised Learning, Complexity Theory

## EDUCATION

**The University of Texas at Austin**

Expected: October 2020

**PhD candidate** in Computer Science Department

GPA: 3.96/4.0

Advisor: Prof. Anna Gal

Thesis: Complexity Measures of Boolean Functions and their Applications

**Indian Institute of Technology Bombay, Mumbai**

July 2009-April 2013

B.Tech in Computer Science, Minor in Mathematics

GPA: 9.75/10.0

## WORK EXPERIENCE

**Machine Learning Research Intern**

May-Nov 2019

**Nokia Bell Labs, Dublin**

Supervisors: Dr. Patrick Nicholson, Dr. Alessandra Sala

**Topic:** *Transfer Learning in Decision Trees*

**Research Intern**

May-July, 2012

**IST Austria**

Supervisors: Prof. Krishnendu Chatterjee, Dr. Sasha Rubin

**Topic:** *Travelling between regular languages*

**Research Intern**

May-July, 2011

**IST Austria**

Supervisor: Prof. Krishnendu Chatterjee

**Topic:** *Faster Algorithms for Alternating Refinement relations*

## PUBLICATIONS

- *Transfer Learning Algorithms for Regression Forests*  
Siddhesh Chaubal, Patrick K. Nicholson  
Under review, 2020.
- *Heuristics for Transfer Learning in Decision Trees*  
Siddhesh Chaubal, Mateusz Rzepecki, Patrick K. Nicholson, Guangyuan Piao, Alessandra Sala  
Under review, 2020.
- *Tight Bounds on Sensitivity and Block Sensitivity of Some Classes of Transitive Functions*  
Siddhesh Chaubal, Anna Gal  
Latin American Theoretical Informatics Symposium (LATIN), 2020.
- *New Constructions with Quadratic Separation between Sensitivity and Block Sensitivity*  
Siddhesh Chaubal, Anna Gal  
Foundations of Software Technology and Theoretical Computer Science (FSTTCS), 2018.
- *How to travel between languages*  
Krishnendu Chatterjee, Siddhesh Chaubal, Sasha Rubin  
Language and Automata Theory and Applications (LATA), 2013
- *Faster Algorithms For Alternating Refinement Relations*  
Krishnendu Chatterjee, Siddhesh Chaubal, Pritish Kamath  
Computer Science Logic (CSL), 2012.

## AWARDS

- Recipient of UT Austin **Graduate School Summer Fellowship** for 2020.
- Recipient of **Travel award** at UT Austin for FSTTCS 2018.
- Recipient of the **Dean's Excellence Award** at UT Austin for 2013-14.
- Recipient of the **Institute Academic Prize** at IIT Bombay for excellence in academics for 2010-11 and 2011-12.
- Awarded **Dr. Winifred Fernandes fellowship** for standing 3<sup>rd</sup> in the Computer Science department at IIT Bombay.
- Secured **All India Rank** 70 in IIT Joint Entrance Exam 2009 from about 400,000 aspirants.

## COURSES COMPLETED AT UT AUSTIN

- |                                  |                            |                                      |
|----------------------------------|----------------------------|--------------------------------------|
| • Learning Theory                | • Coding Theory            | • Machine Learning                   |
| • Randomized Algorithms          | • Information Theory       | • Programming Languages              |
| • Combinatorics and Graph Theory | • Communication Complexity | • Numerical Analysis: Linear Algebra |

## TEACHING

<b>Teaching Assistant</b> , Algorithms and Complexity,	Fall '13, Spring '14, Fall '14, Spring '15, Fall '16, Spring '19
<b>Teaching Assistant</b> , Combinatorics and Graph Theory,	Fall '15, Spring '18
<b>Teaching Assistant</b> , Generic Programming,	Summer '16, Summer '17
<b>Teaching Assistant</b> , Software Engineering,	Summer '17, Summer '18
<b>Teaching Assistant</b> , Object Oriented Programming,	Fall '18, Spring '19

## PROGRAMMING SKILLS

Python, Java, C++, C, Scheme (Lisp), Haskell, MATLAB