

SARTHAK CHIMNI

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Department of Mathematics, Statistics and Computer Science \diamond University at Illinois at Chicago \diamond Chicago, IL 60607

RESEARCH INTERESTS

Subring zeta functions, number theory, combinatorics

EDUCATION

- **University of Illinois at Chicago** 2015 - Present
 PhD Thesis: Subring zeta functions of integral rings. PhD expected May 2021
 Advisor: Ramin Takloo-Bighash
- **University of Delhi** 2013 - 2015
 Master of Mathematics.
- **St. Stephen's College, University of Delhi, India** 2010 - 2013
 B.Sc. Hons. Mathematics

PAPERS

- *Counting Ideals in $\mathbb{Z}[t]/(f)$* , preprint
- (With Ramin Takloo-Bighash) *Subring zeta functions of $\mathbb{Z}[t]/(t^4)$* , preprint.
- (With Ramin Takloo-Bighash) *Cotype zeta function for subrings of $\mathbb{Z}[t]/(t^3)$* , preprint.
- (With Gautam Chinta and Ramin Takloo-Bighash) *Counting subrings of \mathbb{Z}^n of non zero co-rank*, Journal of the Iranian Math Society Vol 1 No 2 (2020), pp 163-172
- (With Soumya Sankar and Amitabha Tripathi) *On integers that are uniquely representable by Modified Arithmetic Progressions*, Notes in Number Theory and Discrete Mathematics 22 (3) (2016), 36-44.

TALKS

- **Number Theory Seminar, UIC** October 2019
 Counting subrings of \mathbb{Z}^n of non zero co-rank
- **The Chicago Number Theory Day, UIC** June 2020
 Cotype subring zeta functions for integral rings

TEACHING

University at Illinois at Chicago *Teaching Assistant*

August 2015 - Present

- *Math 090: Intermediate Algebra* - Fall 2015
- *Math 121: Pre-Calculus* - Fall 2018, Fall 2020
- *Math 125: Linear Algebra for Business* - Spring 2016, Spring 2018
- *Math 180: Calculus I* - Fall 2019
- *Math 181: Calculus II* - Spring 2017, Spring 2020
- *Math 181: Calculus III* - Spring 2019

University at Illinois at Chicago *Instructor*

August 2015 - Present

Math 088: Intermediate Algebra Workshop - Fall 2016, Fall 2017, Fall 2020

Math 090: Intermediate Algebra (Summer Enrichment Workshop) - Summer 2018, Summer 2020

Math 110: College Algebra - Summer 2017

Math 110: College Algebra (Summer Enrichment Workshop) - Summer 2019

AWARDS & SCHOLARSHIPS

- **MSCS Teaching Assistant Award** 2019
- **Suresh Lal Bhandari Memorial Prize**, St. Stephen's College 2013

COMPUTATIONAL SKILLS

Computer Languages	Python
Math Softwares	Sage

SERVICE

- Supervised an undergraduate Neelima Borade in a reading course on p-adic numbers Fall 2018
- Editor - Mathematics Society Journal Forum, St. Stephen's College 2012 - 2013