



Vishnupriya Anupindi

M. Sc. Mathematics

Education

- 2019 – Current **PhD Student in Mathematics**, *Johannes Kepler University*, Linz, Austria
Research scientist at RICAM Linz, working for a project in *Applied Discrete Mathematics and Cryptography*.
Supervisor: Dr. László Mériai
Focus area: Pseudorandom sequences derived from hyperelliptic curves.
- 2015 – 2018 **M. Sc. Mathematics International**, *TU Kaiserslautern*, Germany, Final grade: 1.7 (Good)
Specialisation: Algebra, geometry and computer algebra
Thesis: Counting points on hyperelliptic curves over finite fields.
Supervised by Prof. Dr. Claus Fieker
- 2012 – 2015 **B. Sc. Triple major course in Mathematics, Physics and Chemistry**, *St. Joseph's College*, Bangalore, India
Final grade: 84,31

Indian grading system Maximum points: 100, minimum points required to pass: 40.

Work experience

- October 2020 – September 2021 **Teaching Assistant**, *Department of Mathematics*, Johannes Kepler University
Created problem sets for undergraduate students and taught weekly exercise classes in German. Courses taught included Mathematics for Physics I (Analysis of one variable), Mathematics for Physics II (Linear Algebra).
- May 2016 – March 2019 **Student Assistant**, *Department of Mathematics*, TU Kaiserslautern
Translated the handbook of courses for mathematics from German to English.

Grants and Scholarships

- December 2021 **Kovalevskaya Travel Grant for ICM 2022**, *European Mathematical Society and ICM 2022*, I have been selected for the Kovalevskaya Travel Grant to attend International Congress of Mathematics to be held in St. Petersburg, Russia (July 7th - July 14th 2022)
- August 2022 **Women in Numbers Europe 2022**, *Conference*, I have been selected to work in the project group of Abstract Groups and Cryptography as a part of the Women in Numbers in Europe Conference which aims to increase collaborations amongst female mathematicians working in number theory
- April 2017 **DAAD-STIBET Scholarship**, *TU Kaiserslautern*, Germany, received a renewal of the DAAD-STIBET scholarship to support my studies at TU Kaiserslautern for 6 months
- October 2016 **DAAD-STIBET Scholarship**, *TU Kaiserslautern*, Germany, I received the DAAD-STIBET scholarship to support my studies at TU Kaiserslautern for 3 months

Peer-reviewed journal publication

- [1] V. Anupindi, L. Mérai, *Linear complexity of some sequences derived from hyperelliptic curves of genus 2*, *Cryptography and Communications* 2021 (doi: 10.1007/s12095-021-00521-y)

Talks

- October 2021 **Arithmetik an der A7**, *Linear complexity of some sequences derived from hyperelliptic curves*, Hannover, Germany
- June 2021 **Central European Conference on Cryptology 2021**, *Linear complexity of some sequences derived from hyperelliptic curves*, Debrecen (online), Hungary
- March 2021 **Group Seminar Discrete Mathematics, RICAM**, *Linear complexity of some sequences derived from hyperelliptic curves*, Linz (online), Austria

Attended Workshops and Conferences

- Online events 2020 – 21 **FRNTD**, Front Range Number Theory Day (April 24 2021, April 25, 2020).
- UDT**, 7th International Conference on Uniform Distribution Theory (Feb 22-25, 2021).
- A²WiM**, First Austrian Day of women in mathematics (Feb 23, 2021).
- WAIFI 2020**, International Workshop on the Arithmetic of Finite Fields (July 6-8, 2020).
- January 2020 **Arithmetik an der A7**, *Johannes Kepler University*, Linz, Austria
- December 2019 **Indocrypt 2019**, Hyderabad, India
- September 2018 **Conference: Clay Mathematics Institute at 20**, *University of Oxford*, United Kingdom
- May 2018 **Groups & Algebras in Bicocca for Young algebraists (GABY)**, *Milan*, Italy
- December 2017 **Luxembourg Number Theory Day**, *Univeristé du Luxembourg*
- September 2017 **20th International Workshop for Young Mathematicians “Number Theory”**, *Jagiellonian University*, Krakow, Poland

Skills

- Languages **English** (IELTS Score 8.0, Medium of instruction in school since kindergarten), **German** (B2 level, comfortable with teaching mathematics in German), **Hindi** (fluent), **Telugu** (fluent in speaking), **Oriya** (beginner), **Spanish** (beginner).
- Tech **L^AT_EX** (intermediate level), **Sage** (beginner level), **SymPy** (beginner level), **MAGMA** (beginner level)

Co-Curricular and Extra Curricular Activities

- January 2022 **JKU Young Mathematics Scientists**, *Johannes Kepler University*, Thema - Kryptographie: antik und modern
Gave a lecture to high school students from JKU Young Mathematics Scientists in German on the topic of Cryptography. I gave a brief history and introduced the students to Elliptic curve cryptography which is used in our day to day lives.
- November 2018 – present **Core team member**, *Amicable Scientists*
Amicable scientists is a multi-author blogging website with the aim of science communication. I gave talks in 2 schools in India as a part of our outreach programme to encourage students to pursue pure sciences. I also gave a talk to master's students at St. Josephs's College, Bangalore titled Fermat's last theorem, elliptic curves and cryptography.
- August 2020 – May 2021 **Volunteer**, *SPIC MACAY Europe*
SPIC MACAY stands for *Society for the Promotion of Indian Classical Music And Culture Amongst Youth*.
- July 2019 – February 2020 **Voluntary online teaching**, *eVidyaloka*
I taught English online for 7th Grade students in a rural school at the eVidyaloka Mirzaganj centre, Jharkhand, India.
- February 2020 **JKU Young Mathematics Scientists**, *Johannes Kepler University*, Thema - Modulo, Zahlenmuster und Zahlenfolgen
Gave a lecture to high school students from JKU Young Mathematics Scientists in German on the topic of modular arithmetic and its relation to decimals. I also introduced the Fibonacci Hemachandra sequence and explained the math behind a card trick.
- July 2018 **Additional seminar**, *TU Kaiserslautern*
I gave a seminar talk in German language titled "Modularität und Großer Fermatscher Satz".
- April 2017 – March 2019 **Meisenweg Dormitory Council**, *Kaiserslautern*
I was a member of my student dormitory council where I help in the organization of various events.
- April 2016 – September 2018 **"Haste Töne" Modern Choir**, *TU Kaiserslautern*
I was a member of the modern choir of the university where I sang soprano.
- June 2017 **Lange Nacht der Kultur**, *Kaiserslautern*
I was an active member(singer) of the Indian Music Team "Mahati" in Kaiserslautern. I was the main coordinator for our performance at the "Lange Nacht der Kultur" in Kaiserslautern.