

Avin Sunuwar

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Education **Louisiana State University**, Baton Rouge, LA

Ph.D., Mathematics, 2025.
Field: Structural Graph Theory
M.S., Mathematics, 2021.
GPA: 3.93

Southeastern Louisiana University

B.S., Mathematics, 2015.
B.S., Computer Science, 2015.
GPA: 3.80

Research **Excluding a small minor**

Advisor: Guoli Ding
Summary: Develop new chain theorems to find H -free graphs for small graphs.

Publications **Chain theorems for 3-connected graphs. (In preparation)**
A generalized block-tree theorem. (In preparation)

Teaching **Louisiana State University**, Baton Rouge, LA
Responsibilities: Prepare and deliver all lectures. Prepare and grade all exams.

Instructor, Math 1530, Differential Calculus, Summer 2023

Instructor, Math 1540, Integral Calculus, Spring 2024

Instructor, Math 1550, Calculus 1, Fall 2024

Instructor, Math 2057, Calculus 3, Summer 2024

Responsibilities: Deliver lectures and assist students in the math lab.

Instructor, Math 1021, College Algebra, Fall 2021, Fall 2022, Fall 2023

Instructor, Math 1022, College Trigonometry, Spring 2023

Employment **United States Army Reserves**

Job: Wheeled Vehicle Mechanic (December 2015-December 2021)

Hammond High Magnet School, Hammond, LA

Subjects Taught: Algebra, Geometry, Pre-Calculus, Physics. (August 2017-May 2019)

Awards **Mathematics Department Award:** May 2015

Soldier of the Month: July 2019

Iron Soldier Medal: June 2019

Distinguished Honor Graduate: July 2019

Army Service Medal: December 2020

Programming languages	Python, L ^A T _E X, Java, Mathematica, C++, HTML/CSS, SQL
Relevant coursework	Algebra, Number Theory, Topology, Real Analysis, Complex Analysis, Functional Analysis, Probability Theory, Graph Theory, Matroid Theory, Tutte Polynomials, Linear Programming.
Leadership roles	Nepalese Student Association Secretary (August 2023-August 2024)
Foreign languages	Nepalese(native), Hindi(advanced reading, writing, speaking), Spanish(beginner proficiency in reading, writing, speaking), French(beginner proficiency in reading, writing, speaking)