David White

Curriculum Vitae

Department of Mathematics North Carolina State University Raleigh, NC 27606 ☑ dgwhite2@ncsu.edu

dave-white.github.io GitHub)			
	EDUCATION —		
2017-present	Ph.D. (expected spring 2023), North Carolina State University (NCSU), Raleigh, NC Mathematics		
2007–2011	B.A. (2011), <i>Duke University</i> , Durham, NO Philosophy and Mathematics		
	RESEARCH INTERESTS		
	main of study is low-dimensional topology, o symplectic topology, o differential topology, terest are the applications of Floer homology	knot theory,gauge theory.	
Of purticular in		y theory and the rangem river conjecture.	
	PAPERS David G. White. "Symplectic Instanton Knot Homology". in progress. 2022		
	TALKS		
Mar. 2022	Symplectic instanton knot homology , <i>Pure Math Grad Student Seminar</i> , NCSU Presentation of current research to fellow math graduate students.		
Mar. 2022	Introduction to Floer homology , <i>Pure Math Grad Student Seminar</i> , NCSU Informational presentation to fellow math graduate students.		
Feb. 2022	Symplectic Instanton Knot Homology , <i>Indiana University</i> , Bloomington, IN Informal presentation and discussion, by invitation.		
	TEACHING		
	All courses below were held at North Carolina State University (NCSU).		
	Primary instructor		
	Course	Terms	
	Calculus III - Multivariable calculus	Fall 2019	

Topics in Contemporary Mathematics

Recitation leader (teaching assistant)

Summer 2, 2021 & 2019

Course	Terms
Survey of Geometry	Fall 2021
Calculus III - Multivariable calculus	Spring 2021 & 2019
Calculus I - Single-variable calculus	Spring 2020, Fall 2018

SERVICE -

Jun. 2021 Led a workshop for fellow graduate students at NCSU (organized by its AMS chapter) on configuration and usage of vim plus its vim-latex plugin for editing, managing and automating LATEX projects.

EMPLOYMENT

2017 **Tutor**, *Mathnasium*, Huntersville, NC

Mathematics tutor for K-12 students.

2015–2016 Associate Software Developer, iPipeline, Inc., Exton, PA

Front- and backend developer of engine producing prospectus for insurance and other actuarial products.

2011–2013 Senior Developer, BPM Specialists, Inc., Atlanta, GA

Pega-certified Senior Developer & Systems Architect. Worked on Java-based business process management (BPM) applications for clients including Wells Fargo and TSYS.

SKILLS =

Computing

Mathematical SymPy, Maple, MATLAB, Mathematica High-level C/C++, Java, VisualBasic (.NET)

Scripting Python, PHP, Javascript, Vimscript, Document / TFX, HTML, CSS, Markdown

bash, zsh Markup

System Linux, MacOS Version Git control

Languages

French Intermediate Proficient reader, intermediate to advanced listening comprehension, developing

speaker. Some university coursework.

German Beginner Some university coursework.