

David White

Curriculum Vitae

Department of Mathematics
North Carolina State University
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🌐 dave-white.github.io | 🐙 dave-white (GitHub)

EDUCATION

2017–
expected
spring 2023 **Ph.D.**, *North Carolina State University*, Raleigh, NC
Mathematics

2007–2011 **B.A.**, *Duke University*, Durham, NC
Philosophy and Mathematics

RESEARCH INTERESTS

My study is conducted in the field of low-dimensional manifold topology, with a focus upon applications of Floer theory to questions of 3-manifold topology and of knot theory. Of particular interest for me here are the implications of the ideas underlying the Atiyah-Floer conjecture—the linkage between the gauge-theoretic properties of a space and those based in symplectic geometry.

PUBLICATIONS

expected 2022 David G. White. “Symplectic Instanton Knot Homology”. In: (2022)

SKILLS

Computing

Mathematical	SymPy, Maple, MATLAB, Mathematica	High-level	C/C++, Java, VisualBasic (.NET)
Scripting	Python, PHP, Javascript, Vimscrip, bash, zsh	Document / Markup	T _E X, HTML, CSS, Markdown
System	Linux, MacOS	Version control	Git

Languages

French	Intermediate	<i>Proficient reader, intermediate to advanced listening comprehension, developing speaker. Some university coursework.</i>
German	Beginner	<i>Some university coursework.</i>

EMPLOYMENT

2017 **Tutor**, *Mathnasium*, Huntersville, NC
Mathematics tutor for K-12 students.

- 2014–2016 **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 Systems Architect.

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	Summer 2, 2021 & 2019

Recitation leader (teaching assistant)

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