BRIAN R. WILLIAMS

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EMPLOYMENT	
Boston University	2022-present
Assistant Professor	
University of Edinburgh	2020-2022
Whittaker Research Fellow	
Mathematical Sciences Research Institute (now SLMath)	2020
Research Fellow	
Northeastern University	2018-2020
Zelevinsky Research Instructor	
DUCATION	
Northwestern University	May 2018
Ph.D., Mathematics	
Thesis: The holomorphic σ -model and its symmetries.	
Advised by John Francis and Kevin Costello.	
University of Florida	May 2012
BS summa cum laude Mathematics and Physics	5

B.S., summa cum laude, Mathematics and Physics.

AWARDS AND FELLOWSHIPS

- Visiting Fellow at the Center for Advanced Studies of the Ludwig-Maximilians-Universität München (2024).
- NSF Conference Grant DMS No. 2329854, Conference: New England Algebraic Topology and Mathematical Physics Seminar (NEAT MAPS) (2023-present).
- National Science Foundation (NSF) Graduate Research Fellowship (2012–2018).
- Perimeter Institute for Theoretical Physics graduate student fellow (2015).

ORGANIZATIONAL ACTIVITIES

Organizer

New England Algebraic Topology and Mathematical Physics seminar 1, 2, 3, with Ben Knudsen, Chris Elliott, and Laura Murray. Northeastern, BU, Amherst.

2022 -

Organizer 2022– The BU Geometry and Physics seminar, with Yu-Shen Lin. Boston University.

Organizer 2021 Twisted QFT seminar, with Tudor Dimofte. University of Edinburgh.

Organizer The Hodge seminar. University of Edinburgh.	2020-2022
Organizer <i>Physical Mathematics of Quantum Field Theory</i> , with Chris Elliott, Owen G Online seminar.	2020 Gwilliam and Matteo Lotito.
Organizer Joint MIT/Northeastern RTG Seminar, with Pavel Etingof and Valerio T Northeastern.	2018–2019 Foledano–Laredo. MIT and
ADVISEMENT AND MENTORSHIP	
Ph.D. Committee member	Boston University
\cdot Greyson Potter (defended 2023), Sam Bardwell-Evans (defended 2023).	
Undergraduate Thesis Committee Member	Boston University
· Chris (Quinn) LaFond (2023).	
Undergraduate Thesis Advisor	University of Edinburgh
· Lucy Spouncer (2022).	
TEACHING	
Boston University	2022-
\cdot Topics classes in geometry, Differential Geometry II, Differential Topology	I, Calculus 1.
University of Edinburgh	2020-2022
• Tutor for Honours Algebra, Skills Lab; Tutor for Fundamentals of Pure Mat for advanced undergraduate topics class in complex geometry.	hematics; Course Organizer
Northeastern University	2018-2019
\cdot Calculus 1 (Honors), graduate topics classes in geometry and topology, line	ear algebra.
Northwestern University	2012-2018
\cdot Calculus 1, Linear Algebra (Honors), Complex Variables, Partial Differenti	al Equations.
INVITED LECTURE SERIES	
Thematic Program on Arithmetic, Geometry, and Physics: Higher Algebra Twisted holography, Korean Institute for Advanced Study (KIAS).	ic Structures. 2022
LMS Autumn Summer School. Infinite dimensional Lie algebras and their multivariable generalizations.	2020
Factorization Algebras and Functorial Field Theory at Oberwolfach in Ger Observables of QFT in the BV-formalism. Oberwolfach	rmany. 2016

Observables of QFT in the BV-formalism, Oberwolfach.