

## Joanna A. Ellis-Monaghan —Biography

Joanna A. Ellis-Monaghan is honored to be the Fulbright Distinguished Chair at Charles University in the Matematicko-fyzikální fakulta for January-August of 2020. Prof. Ellis has an undergraduate degree in Studio Art and Mathematics from Bennington College, a Masters in Mathematics from the University of Vermont, and a PhD in Mathematics from the University of North Carolina, Chapel Hill. She is the Chair of the Department of Mathematics and Statistics at Saint Michael's College, where she led the establishment of a new interdisciplinary Data Science Program. Currently on sabbatical, she was the Shelly Visiting Professor at Carnegie Mellon University for Fall 2019, and was awarded a Fulbright-Charles University Distinguished Chair at Charles University for 25 Jan - 8 Aug 2020.

She works in the areas of algebraic combinatorics, especially graph polynomials; applied graph theory in DNA self-assembly, statistical mechanics, computer chip design, and bioinformatics; and undergraduate mathematics pedagogy. Her work explores the interstices between disciplines, leveraging connections and ideas than can take a field in new and unexpected directions. She is an editor of *Annales de l'Institut Henri Poincaré D: Combinatorics, Physics, and their Interactions*, and has been Editor-in Chief of the journal *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies* since 2011 (jointly with Matt Boelkins since 2015).