

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES
COLLOQUIUM

Friday, November 6
3:00 – 4:00 PM
Maria Sanford, Room 101

**SHORT HOMOLOGY CURVES ON
TRANSLATION SURFACES:
HOW I LEARNED TO STOP WORRYING
AND LOVE AI**

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Abstract: Over the summer, during our joint work with P. Buser, A. Dey, and B. Muetzel, my co-author began using AI to enhance our research. This was a strange experience for me and made me consider the implications for the future.

In the first part of the talk, I will present my perspective on the development of AI use in mathematical research, touching on the main advances and challenges in a somewhat biased way. I look forward to hearing other points of view.

If time permits, the second part will be a more traditional colloquium in which I will present our work on estimating short homology curves on a translation surface using a Voronoi graph and a Delaunay triangulation.

To join us online use the following link: <https://ccsu.webex.com/meet/gotchev>

For further information: gotchevi@ccsu.edu; 860-832-2839;

<http://mathcolloquium.sites.ccsu.edu/>