

**THE CATHOLIC UNIVERSITY OF AMERICA**  
**Washington, DC 20064**

**SEMINAR IN FUNCTIONAL ANALYSIS**  
**AND RELATED AREAS**

**Wednesday, February 1, 2023**

**5:10 p.m. - 6:50 p.m. (including a coffee break)**

**SPEAKER:** Dr. Curtis Holliman  
The Catholic University of America

**TITLE:** Instability and Nonunique Solutions for Water Wave Equations

**ABSTRACT:** We examine some new developments in the well-posedness theory for water wave equations including the Camassa-Holm equation and some of its generalizations. We demonstrate how instability via norm-inflation and nonuniqueness can be shown.

**PLACE:** Aquinas Hall, room 108. The talk will be on Zoom as well (from 4:45 p.m. to 6:30 p.m. ET). The corresponding link will be sent to everyone in advance.

**ORGANIZERS:** V. Bogdan (The Catholic University of America), P. Kainen (Georgetown University), R. Kalpathy (The Catholic University of America), and A. Levin (The Catholic University of America).

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**Web page:**

<https://mathematics.catholic.edu/faculty-and-research/mathematics-seminar/index.html>