The Math/Stats Colloquium
Department of Mathematics and Statistics
San José State University

Ferdie Rivera and Plamen Koev (SJSU)

Enhancing Representations in Linear Algebra Through Virtual Reality

Wed Nov 29, 2023, MH320

Abstract: In this session, folks will be provided with an opportunity to test two virtual reality (VR) modules for investigating linear algebra concepts and relationships. This exploratory project has been funded by the National Science Foundation with the aim of providing a proof-of-concept that shows how enhanced VR representational tools can support students' engagement in "embodied, embedded, enactive, and extended" abstraction and consequently strengthen their long-term semantic memory of concepts and relationships in linear algebra.

Background: Participants just need an open mind about the use of VR in constructing deep mathematical knowledge.

About the speakers: Ferdie Rivera and Plamen Koev are developing innovative strategies for understanding mathematics using the most current technological tools. Ferdie's research specializes in classroom-based math cognition, and Plamen's research specializes in numerical linear algebra. This particular research project aligns with recent recommendations and newer approaches for learning linear algebra.

Snacks in MacQuarrie Hall 331B at 2:40pm
Talk starts at 3:00pm

For more information, see our full schedule at:

`http://www.timhsu.net/colloq/`