



2023 MAA MathFest

Undergraduate Student Poster Session

Janet L. Andersen Award Winners

The *Janet L. Andersen Award for Undergraduate Research in Mathematical or Computational Biology* was established by the Mathematical Association of America's [SIGMAA on Mathematical and Computational Biology](#) in honor of Janet Andersen. Until her untimely death in 2005, Janet Andersen was Professor of Mathematics at Hope College in Holland, Michigan.

She joined the Hope faculty in 1991 after completing her master's and doctoral work in algebraic geometry at the University of Minnesota. At Hope, she pioneered an interdisciplinary course in mathematical biology, was a research mentor for students in the field, and worked through several organizations such as the [BioQuest Curriculum Consortium](#), the [MAA](#), and the [Society for Mathematical Biology](#) to broaden undergraduate exposure to mathematical biology.

This prize honors her efforts.

30, A Mathematical Approach for Optimizing Linguistically-Induced Analgesia

Ryka Chopra

37, Using a SIR-type mathematical model to understand human behavior in epidemic dynamics

Angelique Santiago & Jasmin Nunuvero

41, Modeling Disease Transmission and Control in Long-Term Care Facilities

Lizbeth Leon, Brittany Stephenson, & Harold Arriaga