



Colloquium

Inaugural Lecture: Samara Ren and Michael Sammler

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ISTA

Host: Andela Saric

Samara's Talk Title: "Computational Inverse Design of Shape-Morphing Structures" Michael's Talk Title: "Automated and Foundational Verification of Low-Level Programs" The correctness of low-level software like operating systems or hypervisors is crucial to the reliability and security of modern applications. This makes such low-level programs a prime target for formal verification. However, to apply formal verification to low-level software, we must deal with three challenges: 1) handling realistic systems code and programming languages, which is often idiomatic and nuanced, 2) ensuring the soundness of the verification technique, ideally via foundational proofs in a proof assistant, and 3) automating the verification as much as possible. In this talk, I present my work and my vision towards advancing formal verification along these dimensions simultaneously.

Monday, February 24, 2025 11:30am - 12:30pm

RLH



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

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<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.