



CERTIFICATE

The Friedrich Schiller University Jena, represented by its Faculty of Social and Behavioural Sciences, under President Dr. Walter Rosenthal, Professor of Cellular Signal Transduction, and Dean Dr. Frank Daumann, Professor of Sports Economics and Health Economics, herewith confers

Christine Nussbaum

born on 20 March 1994 in Freiberg

the academic degree

DOCTOR OF PHILOSOPHY

Ph.D.

She has demonstrated her academic qualifications in a regular doctoral examination procedure under the supervision of Professor Dr. Stefan R. Schweinberger by submitting the doctoral thesis »Vocal emotions on the brain: The role of acoustic parameters and musicality« (mark: summa cum laude) and upon a thesis defence (mark: summa cum laude), thus being conferred the overall final mark: **summa cum laude**.

Jena, 03 July 2023

The President

A handwritten signature in blue ink, appearing to read 'W. Rosenthal', written over a faint circular stamp.

The Dean

A handwritten signature in blue ink, appearing to read 'F. Daumann', written over a faint circular stamp.