



Universidade de Brasília

The emergence of an
Information Bottleneck Theory
of Deep Learning

Frederico Guth

*Dissertation presented for the conclusion of the
Master Degree in Computer Science*

Teófilo Emidio de Campos (Supervisor)
Universidade de Brasília

Prof. John Shawe-Taylor
University College London

Prof. Moacir Ponti
Universidade de São Paulo

Prof. Ricardo Jacobi
Computer Science Graduate Program Coordinator

Brasília, February 20th, 2022