



Master's thesis  
Master's Programme in Data Science

# Differentially Private Markov Chain Monte Carlo

Ossi Räisä

September 1, 2020

Supervisor(s): Professor Antti Honkela

Examiner(s): Professor Antti Honkela  
Dr. Antti Koskela

UNIVERSITY OF HELSINKI  
FACULTY OF SCIENCE

P. O. Box 68 (Pietari Kalmin katu 5)  
00014 University of Helsinki







# Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Background</b>	<b>3</b>
2.1	Differential Privacy . . . . .	3
<b>3</b>	<b>Conclusions</b>	<b>5</b>
	<b>Bibliography</b>	<b>7</b>



# 1. Introduction





## 2. Background

### 2.1 Differential Privacy

Hello world [1]



### **3. Conclusions**



# Bibliography

- [1] C. Dwork and A. Roth. The algorithmic foundations of differential privacy. *Foundations and Trends in Theoretical Computer Science*, 9(3-4):211–407, 2014.