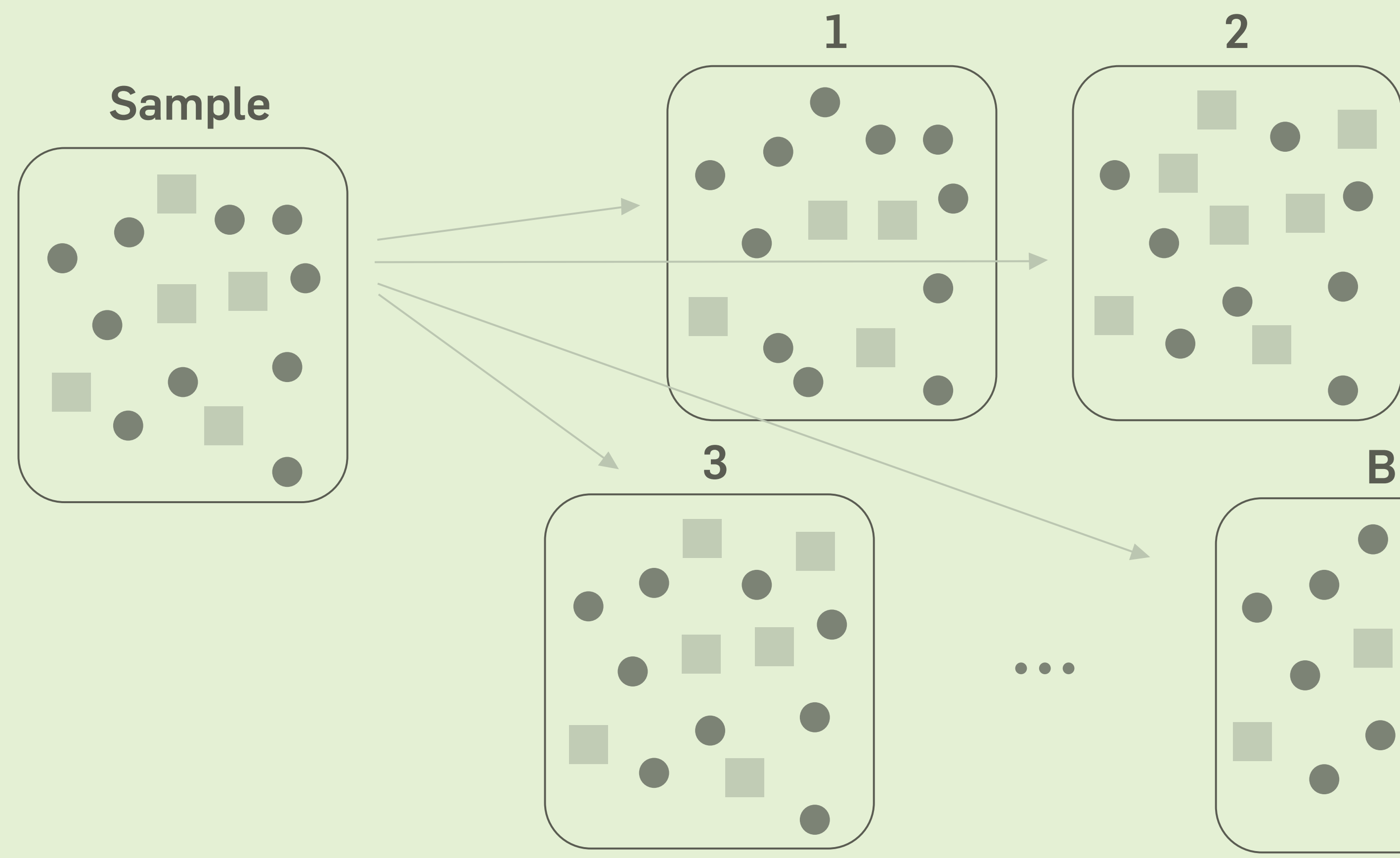
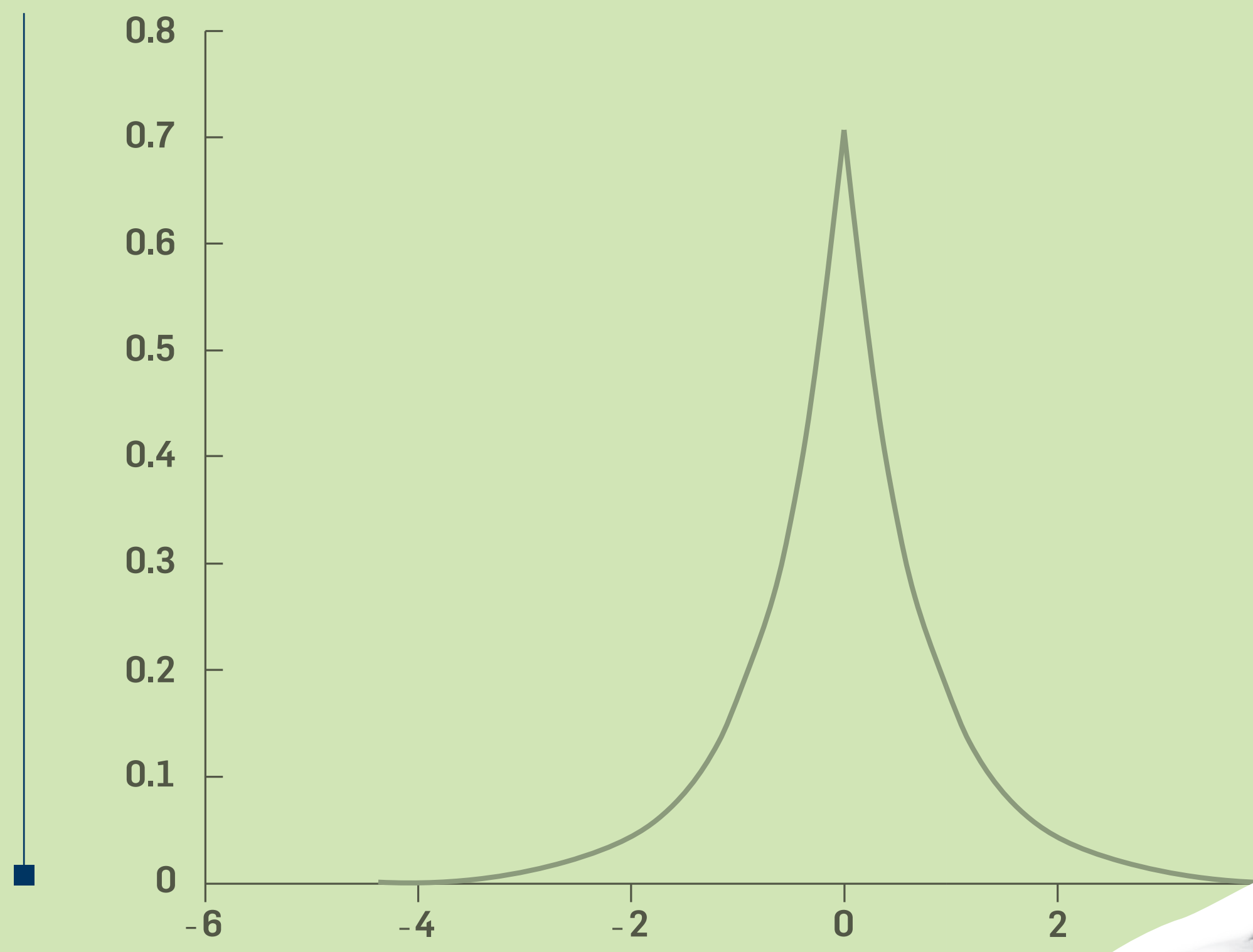


STATISTIC



CARINA GRAW



BOOTSTRAP

CONFIDENCE INTERVAL

STOCHASTIC GRADIENT DESCENT

DIFFERENTIAL PRIVACY



```
3993751058209749
1027019385211055
3936072602491412
0572703657595919
0213949463952247
371787214684409
999983729780499
206171776669147
952572010654858
295331168617278
578374494482553
376402474964732
272107975093029
470600161452491
1855620992192221
1252051173929848
9624138908658326
3944374553050682
86838689427741559
079771566914359977
667278239864565961
6010150330861792866
3796414515237462343
4037420073105785390
36634287544406437451
37621378559566389377
24340881907104863317
771577004203378699360
116722910981690915280
398315019701651511685
1428138830320382490
59070915481416549858
428138830320382490
983895228684783123526
03966655730925471557
```



WOMEN IN IT SECURITY

Carina Graw is a doctoral student at the Chair for Stochastics at Ruhr University Bochum (RUB), within the Cluster of Excellence CASA.

In her research, she focuses on statistical guarantees for methods that ensure privacy in terms of Differential Privacy. In the classical case, Bootstrap is a widely used and well-studied principle for determining such guarantees. She investigates whether and how this principle can be implemented under Differential Privacy, currently for Stochastic Gradient Descent. Carina successfully completed her master's degree in Mathematics at RUB in 2021.



casa.rub.de | hgi.rub.de

Concept and Design: HGI Annika Gödde & Conny Robrahn
Bildnachweise: CASA, Tim Kramer; stock.adobe.com: Oleksandr Pokusai, magann, Christos Georghiou, Kirill

