Table 1. SPEAR reconstruction of the inputs to first linear layer of a VGG16 network on 100 IMAGENET batches of size $b = 20$. We report the mean absolute error (MAE) of the reconstruction, the percentage of successful reconstructions (Acc(%)), and the median number of iterations taken (Median n_{iter}).

MAE	Acc(%)	Median n_{iter}
1.30×10^{-6}	100	10000

Table 2. Comparison between the reconstructions of the inputs to different linear layers l ($1 \leq l \leq 6$) of a network with total of $L = 6$ layers and width $m = 400$ on 100 TINYIMAGENET batches of size $b = 20$. We report the mean absolute error (MAE) of the reconstruction, the percentage of successful reconstructions (Acc(%)), and the median number of iterations taken (Median n_{iter}).

l	MAE	Acc(%)	Median n_{iter}
1	1.06×10^{-6}	100	36100000
2	1.33×10^{-6}	100	31600000
3	1.67×10^{-6}	100	84100000
4	2.80×10^{-6}	99	181100000
5	3.04×10^{-6}	83	840600000

Figure 1. A random sample of 6 images from the batch whose reconstruction is at the 10th PSNR percentile for a set of 100 batch reconstructions on $L = 6, m = 200$ fully connected network and batches of size $b = 20$ from the TINYIMAGENET dataset. We show SPEAR reconstruction (top), and compare them to the ground truth (bottom).

Figure 2. A random sample of 6 images from the batch whose reconstruction is at the 50th PSNR percentile for a set of 100 batch reconstructions on $L = 6, m = 200$ fully connected network and batches of size $b = 20$ from the TINYIMAGENET dataset. We show SPEAR reconstruction (top), and compare them to the ground truth (bottom).

Table 3. Comparison between the reconstructions of Geiping et al. [1] and a version of SPEAR that relies on the Geiping et al. reconstructions to choose which matrices L_A to subsample when applying Theorem 3.3. We report the results on 10 TINYIMAGENET batches for $L = 6$ layer fully connected networks with two different widths m. We report percentage of successful reconstructions (Acc(%)) and the average PSNR for correctly recovered images (PSNR Rec) and all images (PSNR All).

Method	b	m	Acc(%)	PSNR All	PSNR Rec
Geiping et al. [1]	50	400	100	26.5	26.5
SPEAR - ours	50	400	100	124.5	124.5
Geiping et al. [1]	100	2000	100	32.8	32.8
SPEAR - ours	100	2000	60	81.5	119.9

Figure 3. A random sample of 6 images from the batch whose reconstruction is at the 90th PSNR percentile for a set of 100 batch reconstructions on $L = 6, m = 200$ fully connected network and batches of size $b = 20$ from the TINYIMAGENET dataset. We show SPEAR reconstruction (top), and compare them to the ground truth (bottom).