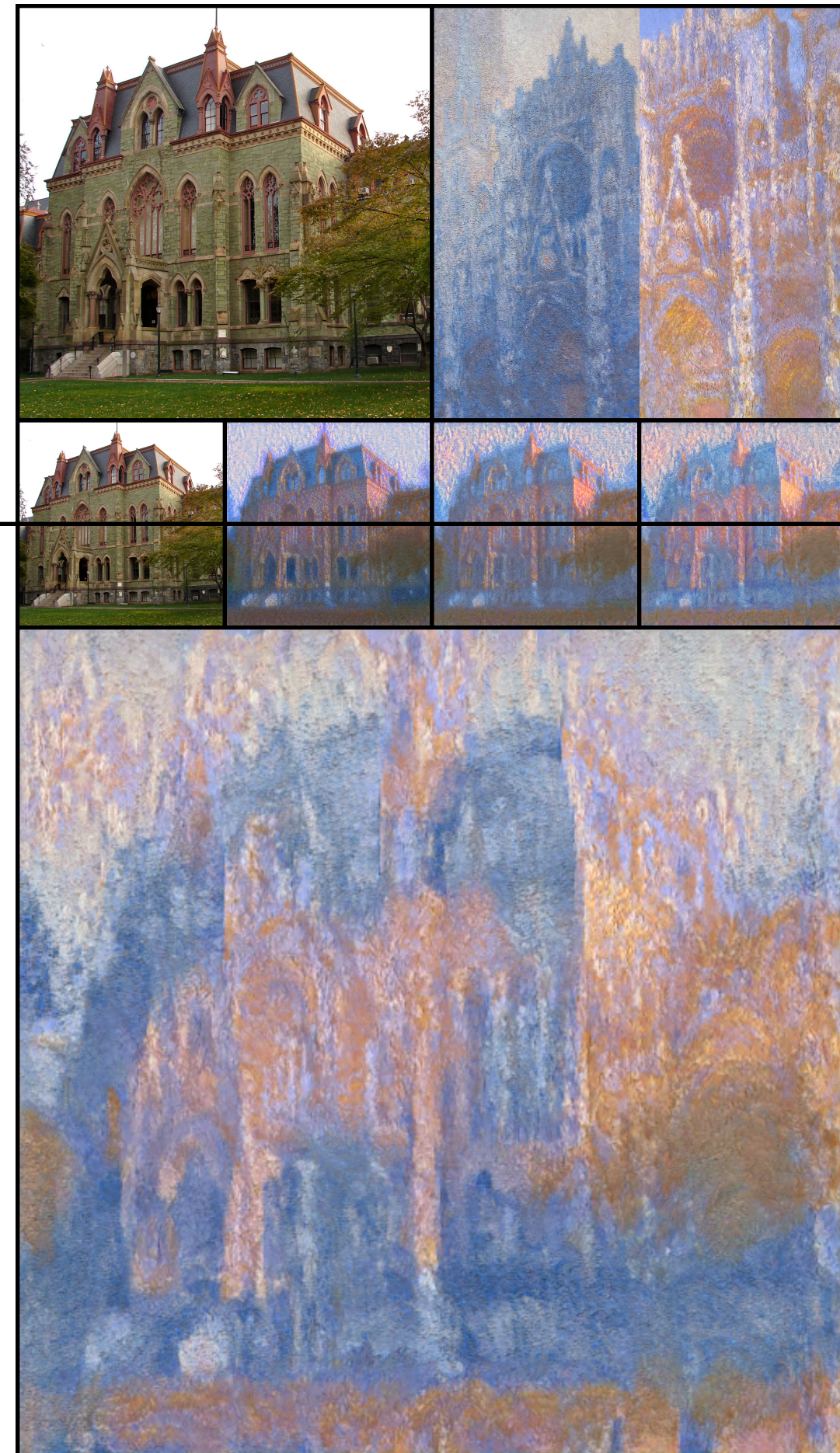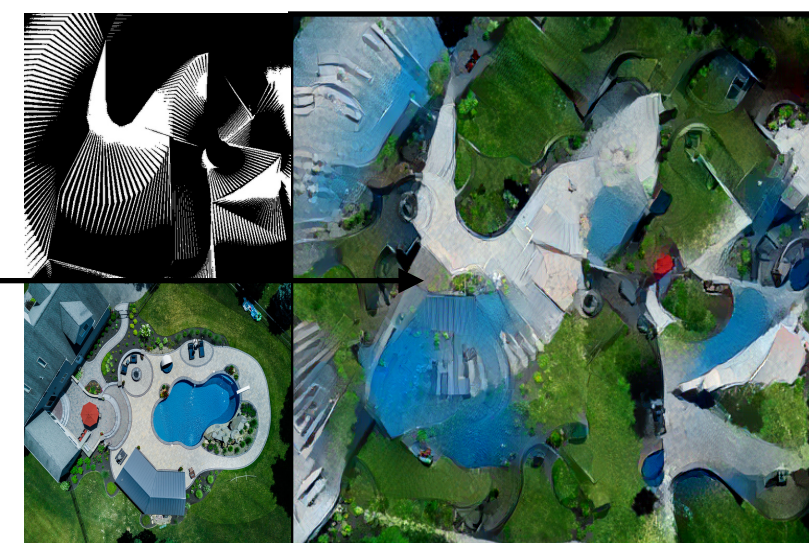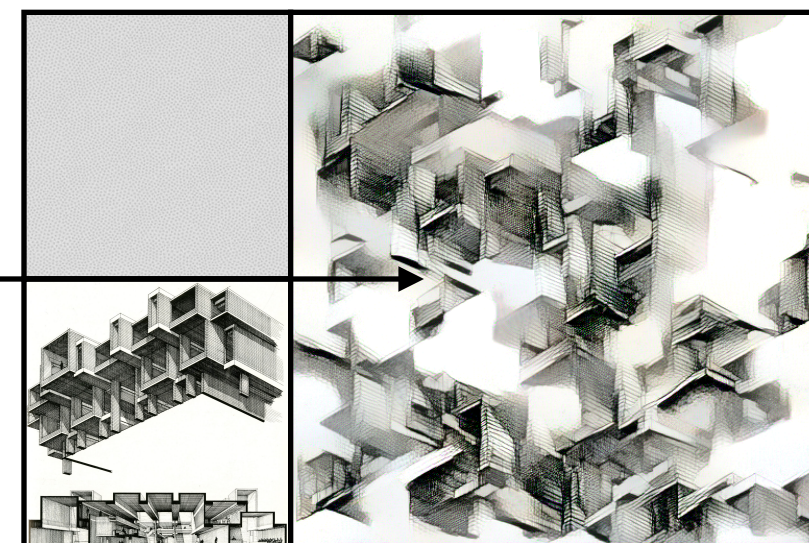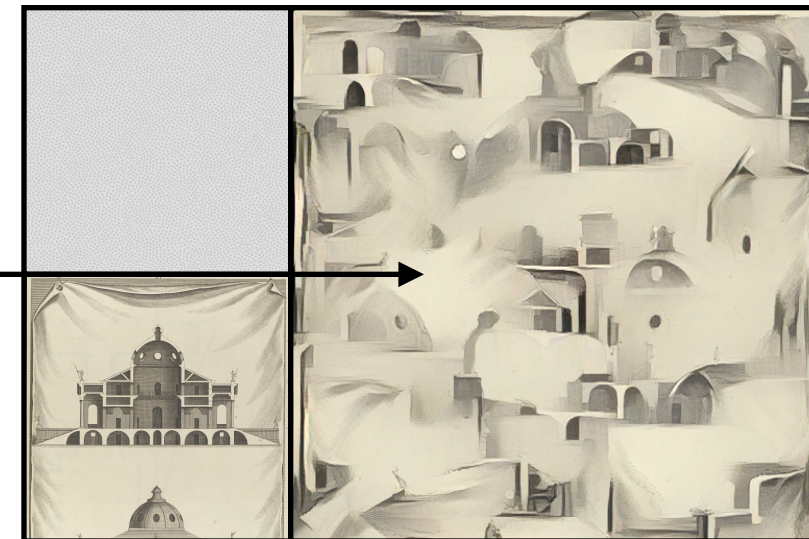# Neural Architectures *exploring machine-dreamed architectural space*

Style transfer

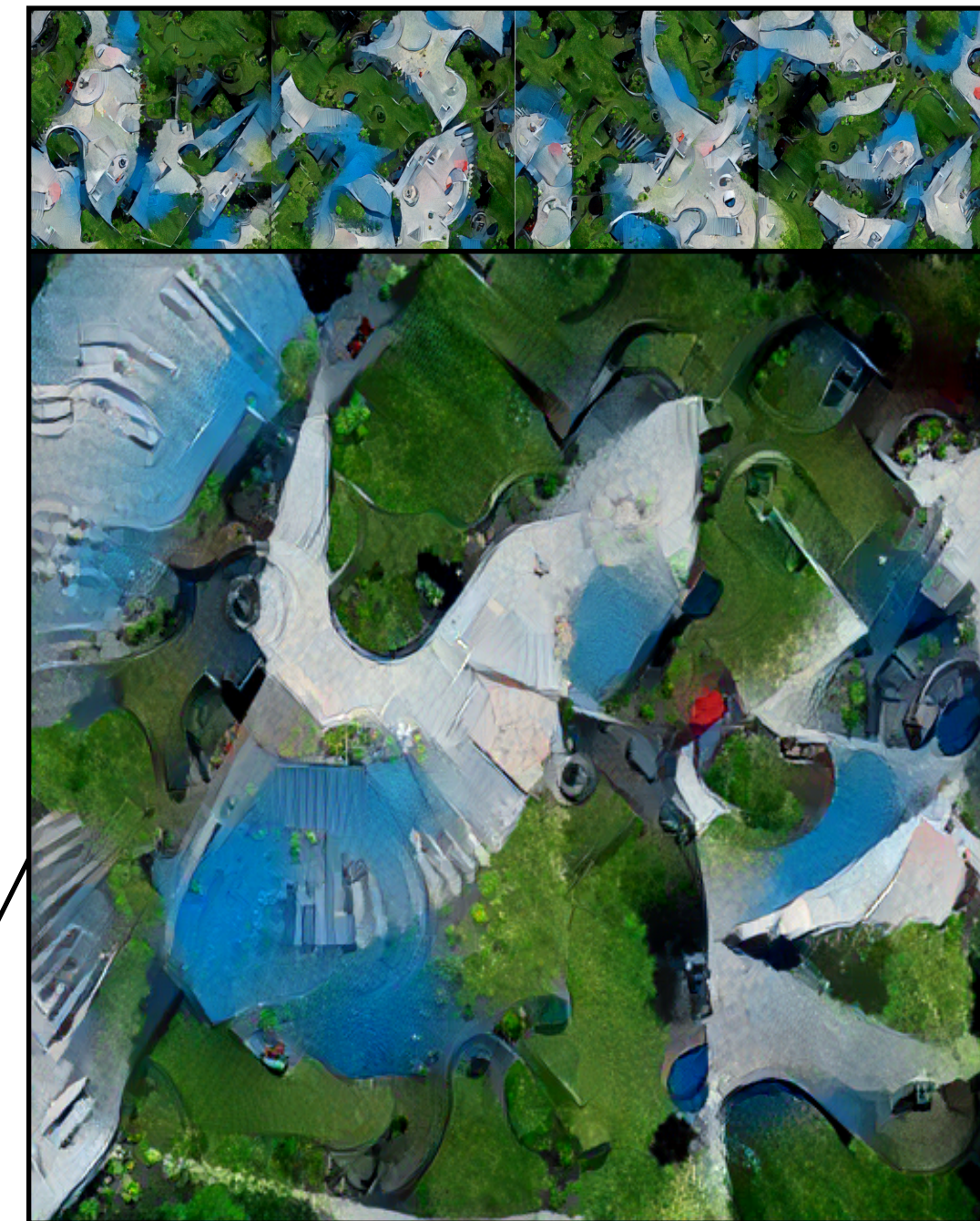*Gatys et al. (2015)*

"What if we used architectural plans and photos as styles, rather than paintings?"

Generated neighborhoods

Complete with pools, patios, lawns, etc.

The above photo, along with a few of its siblings overtop, demonstrate that we can generate fully cohesive (but certainly unconventional!) architectural landscapes with little to no human involvement, a novel achievement in the field of architecture.

Contributors:
Andrew Saunders, MArch
Jesse Allen, BA
Cecily Nishimura (PURM)
Will Sturgeon (self, PURM)

3D potential: open research

Can data generate 3D space?

Not a question of *if*, but of *when*. Neural networks now reliably outperform humans on visual tasks, and while style transfer is currently inherently 2D, our future research aspires to change that.